TOSHIBA

SERVICE MANUAL

LCD Color Television

32AV505D

Ver. 2.00

This model is classified as a green product (*1), as indicated by the underlined serial number. This Service Manual describes replacement parts for the green product. When repairing this green product, use the part(s) described in this manual and lead-free solder (*2).
For (*1) and (*2), refer to **GREEN PRODUCT PROCUREMENT** and **LEAD-FREE SOLDER**.

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IMPORTANT NOTICE

WARNING:

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IMPORTANT NOTICE

User's Guide

Contents:

- Install Autodesk DWF Viewer
- Internet Explorer Settings
- Operating Environment
- Functions Provided on Each Drawing Page
- Using with Network

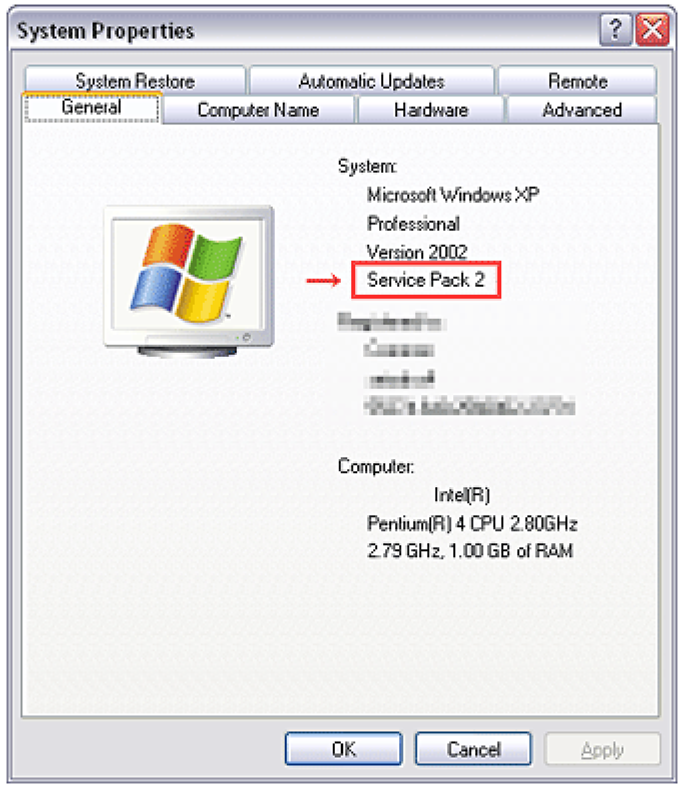
Install Autodesk DWF Viewer

Autodesk DWF Viewer is necessary to view drawings and to activate the functions of this system. Please download and install.

Internet Explorer Settings

When **Windows XP SP2** or **Windows Vista** is used, ActiveX control and pop-up windows are limited by the enhanced security function and this system may not work. In that case, perform the Internet Explorer setting using the following procedure to restore normal operation.

1. Windows version check
   [My Computer (right-click)] - [Properties]

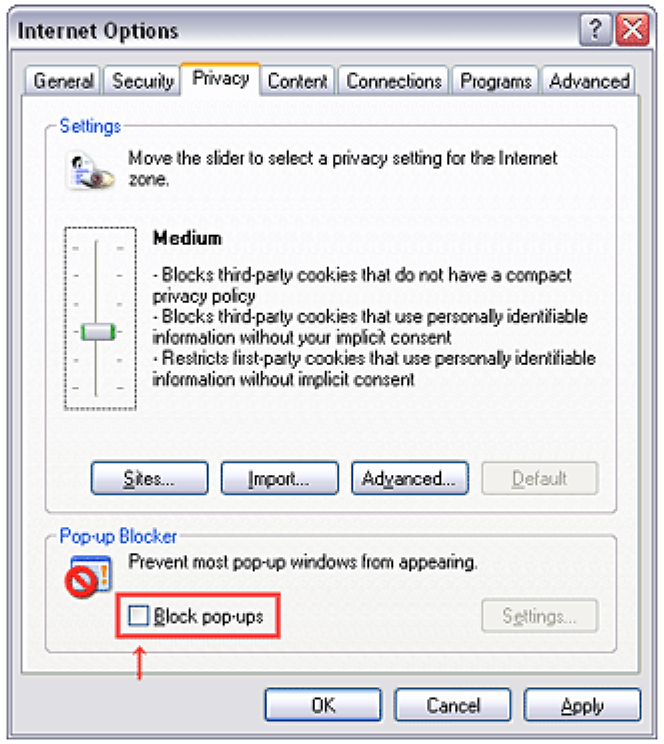

System Properties
System Restore
Automatic Updates
Remote
General
Computer Name
Hardware
Advanced
OK
Cancel
Apply

System:
Microsoft Windows XP
Professional
Version 2002
Service Pack 2

[redacted]

Computer:
Intel(R)
Pentium(R) 4 CPU 2.80GHz
2.79 GHz, 1.00 GB of RAM

2. Internet Explorer setting
   [Tools] - [Internet Options]


Internet Options
General
Security
Privacy
Content
Connections
Programs
Advanced
Settings
Sites...
Import...
Advanced...
Default
Pop-up Blocker
Settings...
OK
Cancel
Apply

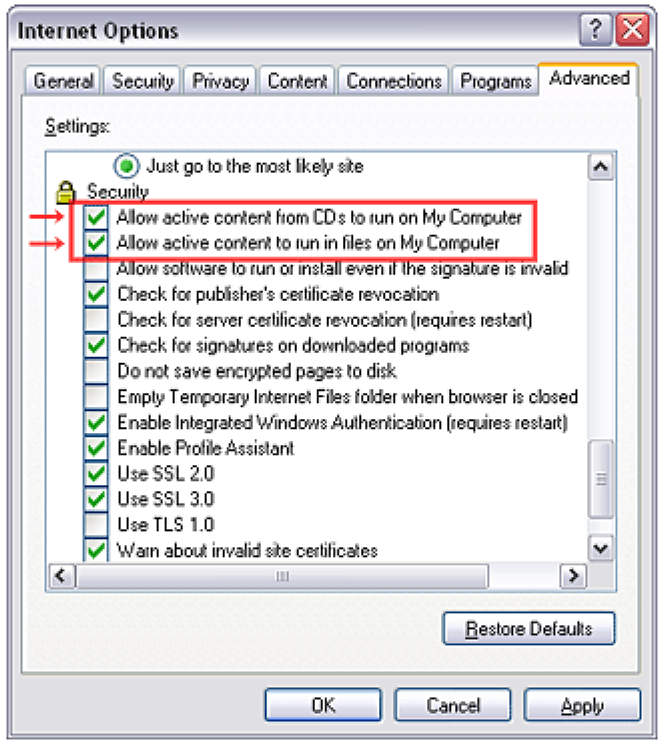
Move the slider to select a privacy setting for the Internet zone.

Medium

- Blocks third-party cookies that do not have a compact privacy policy
- Blocks third-party cookies that use personally identifiable information without your implicit consent
- Restricts first-party cookies that use personally identifiable information without implicit consent

Prevent most pop-up windows from appearing.

☐ Block pop-ups


Internet Options
General
Security
Privacy
Content
Connections
Programs
Advanced
Restore Defaults
OK
Cancel
Apply

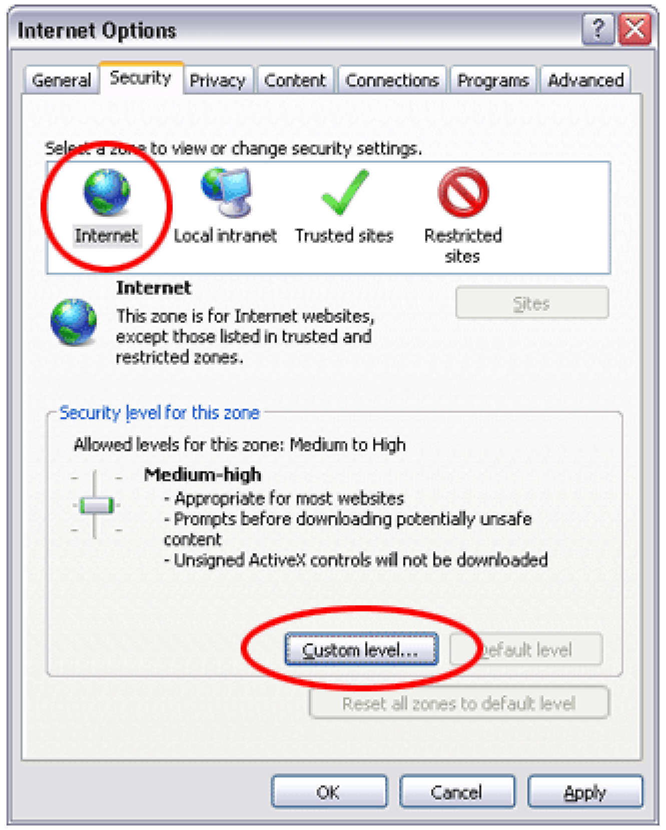
Settings:

● Just go to the most likely site

Security

☑ Allow active content from CDs to run on My Computer
☑ Allow active content to run in files on My Computer
☐ Allow software to run or install even if the signature is invalid
☑ Check for publisher's certificate revocation
☐ Check for server certificate revocation (requires restart)
☑ Check for signatures on downloaded programs
☐ Do not save encrypted pages to disk
☐ Empty Temporary Internet Files folder when browser is closed
☑ Enable Integrated Windows Authentication (requires restart)
☑ Enable Profile Assistant
☑ Use SSL 2.0
☑ Use SSL 3.0
☐ Use TLS 1.0
☑ Warn about invalid site certificates

for Internet Explorer 7


Internet Options
General
Security
Privacy
Content
Connections
Programs
Advanced
Internet
Local intranet
Trusted sites
Restricted sites
Sites
Custom level...
Default level
Reset all zones to default level
OK
Cancel
Apply

Select a zone to view or change security settings.

Internet

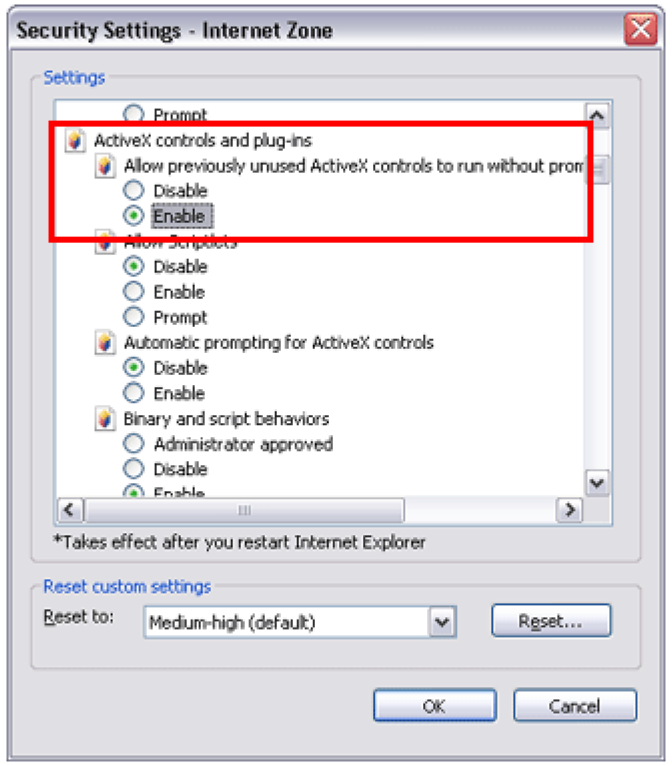
This zone is for Internet websites, except those listed in trusted and restricted zones.

Security level for this zone

Allowed levels for this zone: Medium to High

Medium-high

- Appropriate for most websites
- Prompts before downloading potentially unsafe content
- Unsigned ActiveX controls will not be downloaded


Security Settings - Internet Zone
Settings
Reset custom settings
Reset...
OK
Cancel

○ Prompt

ActiveX controls and plug-ins

Allow previously unused ActiveX controls to run without prom

○ Disable

● Enable

Allow Scriptlets

● Disable

○ Enable

○ Prompt

Automatic prompting for ActiveX controls

● Disable

○ Enable

Binary and script behaviors

○ Administrator approved

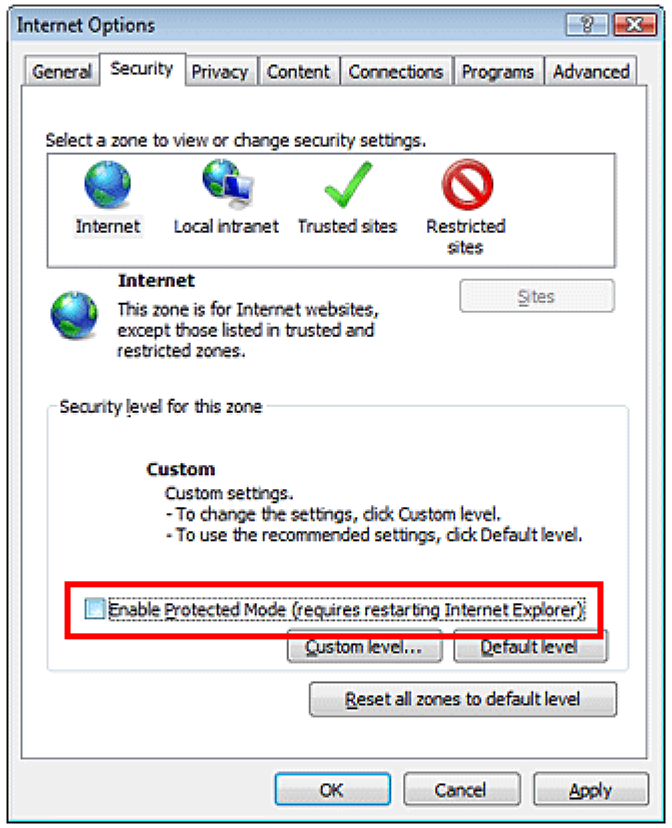
○ Disable

● Enable

*Takes effect after you restart Internet Explorer

Reset to: Medium-high (default)

for Windows Vista


Internet Options
General
Security
Privacy
Content
Connections
Programs
Advanced
Internet
Local intranet
Trusted sites
Restricted sites
Sites
Custom level...
Default level
Reset all zones to default level
OK
Cancel
Apply

Select a zone to view or change security settings.

Internet

This zone is for Internet websites, except those listed in trusted and restricted zones.

Security level for this zone

Custom

Custom settings.

- To change the settings, click Custom level.
- To use the recommended settings, click Default level.

☐ Enable Protected Mode (requires restarting Internet Explorer)

Operating Environment

PC	: Pentium III or higher recommended
Monitor	: 1024 x 768 or higher resolution recommended
Mouse	: A mouse with wheel recommended
OS	: Microsoft Windows 2000 SP4 / XP / Vista
Browser	: Microsoft Internet Explorer 6.0 / 7.0
Drawing viewer	: Autodesk DWF Viewer 6.0 / 7.0

* Use the software following respective license terms and conditions.

Functions Provided on Each Drawing Page

Parts Information Reference Function

When the character string of a part on the drawing is clicked, its information is popped up at the location. You can get any parts information immediately on the screen without referring to the maintenance parts list. 🖱

Parts Search Function

You can search any part within the displayed drawing or within the whole schematic diagram/board view by specifying a location number. The pop-up window displayed by clicking a part 's character string allows to search the part within the applicable schematic diagram, board view or spare parts list. 🖱

A circle appears when the part is found, showing the part's location within the drawing. 🖱

Signal Line/Connector Destination Display Function

When a name at the end of a signal line in a divided schematic diagram is clicked, the destination of the signal is searched and the display changes to the destination. Connecter destinations can also be searched in the same way. 🖱

When two or more search results are provided, their drawing names are displayed, allowing you to choose a desired drawing to display. 🖱

Layer Display Changing Function

When any of the color buttons on the toolbar is clicked, it can be selected to display desired layer in its color or not to display each layer. This allows you to see the pattern layer only by setting other layers to "non-display".

PC Board View Pattern Highlighting Function

When a pattern on a board view is clicked, it is highlighted in green. This allows easy pattern tracing.

Specified Area Printing Function

The Autodesk DWF Viewer enables to print the displayed drawing region as it is on a printer. It also allows to print a large-sized drawing in multiple pieces (tile printing).

Using with Network

PRECAUTION

To use ZEUS Service Manual Ver.2 with network, the file-path names written on the source files of each ZEUS Engine Program Ver.2 and ZEUS Service Manual Ver.2 are to be modified.
Perform the procedure described below.

Preparation

1. Run the program file zuesFPch.exe to install the program file for File-Path to the Local PC.

   -> Download zeusFPch_setup.zip (2.3MB)

2. Run the program file ZeusSetup_v2.0.exe to install the ZEUS Engine Program in C:\Program Files\zeus of the local PC. This can be done by running the installer program provided.

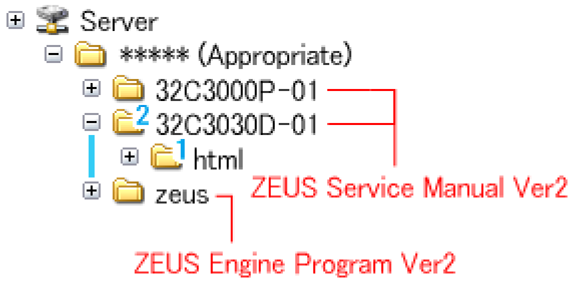
3. Create the appropriate folder where the ZEUS Engine Program Ver.2 and the ZEUS Service Manual Ver.2 to be stored in the server.

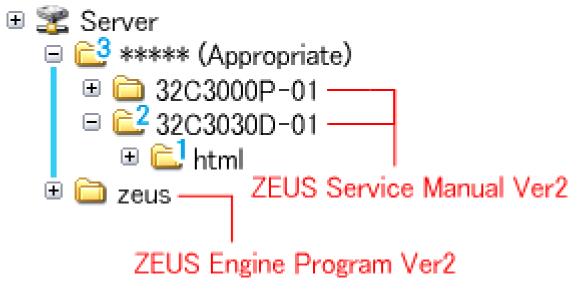
4. Move the ZEUS Engine Program of step 2 to the folder created at step 3 in the Server.

5. Detach the ZEUS Service Manual Ver.2 to the folder created at step 3 in the Server.

6. Unzip the ZEUS Service Manual Ver.2 within the folder in the Server.

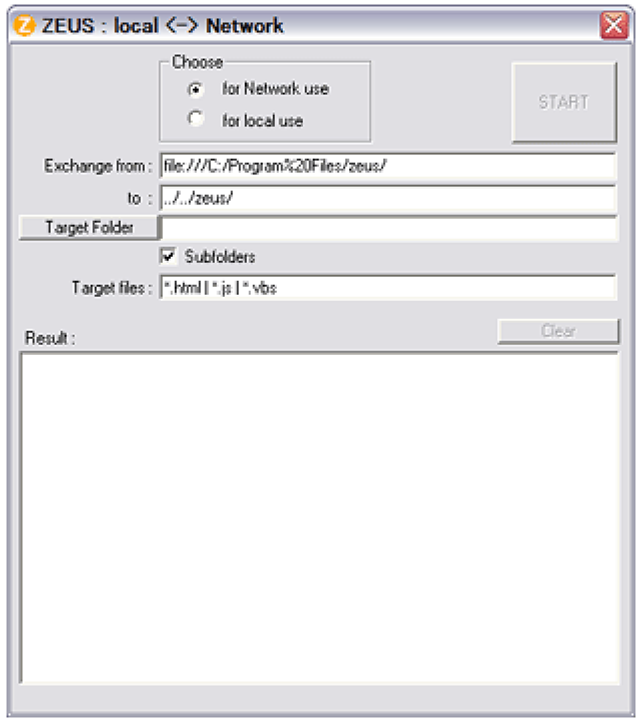
   Example of folder


Server
***** (Appropriate)
32C3000P-01
2
32C3030D-01
1
html
zeus
ZEUS Service Manual Ver2
ZEUS Engine Program Ver2


Server
3
***** (Appropriate)
32C3000P-01
2
32C3030D-01
1
html
zeus
ZEUS Service Manual Ver2
ZEUS Engine Program Ver2

Procedure of File-Path

The zeusFPch is the exclusive program to exchange the file-path names written in both source files of ZEUS Manual and ZEUS Engine program into those applicable to the network use.



ZEUS : local <-> Network

Choose
● for Network use
○ for local use

Exchange from : file:///C:/Program%20Files/zeus/
to : ../../zeus/
Target Folder
☑ Subfolders
Target files : *.html | *.js | *.vbs
Result :

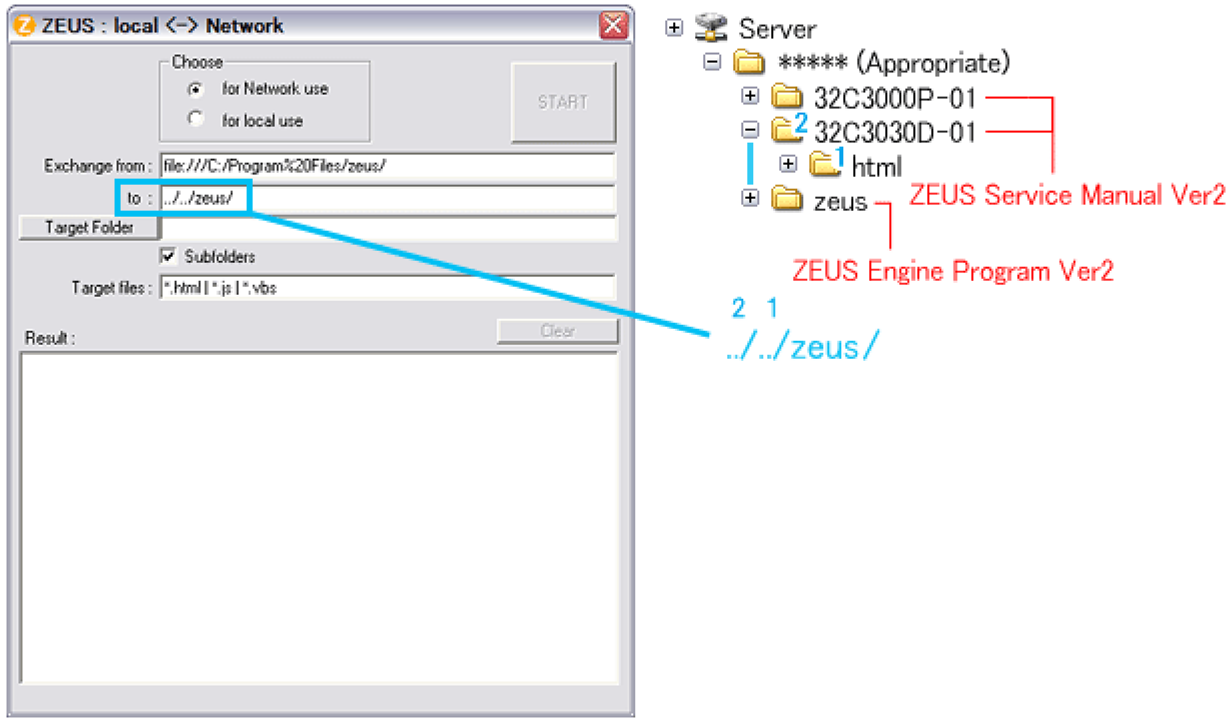
START
Clear

1. Whenever changing the file-path of both ZEUS Engine Program and ZEUS Service Manual to use with network, pay the attention to set the "Exchange to" column that should have a proper relation between ZEUS Engine Program and ZEUS Service Manual with referring the following.

   Run the zeusFPch and set "Exchange to" by referring to the examples below.

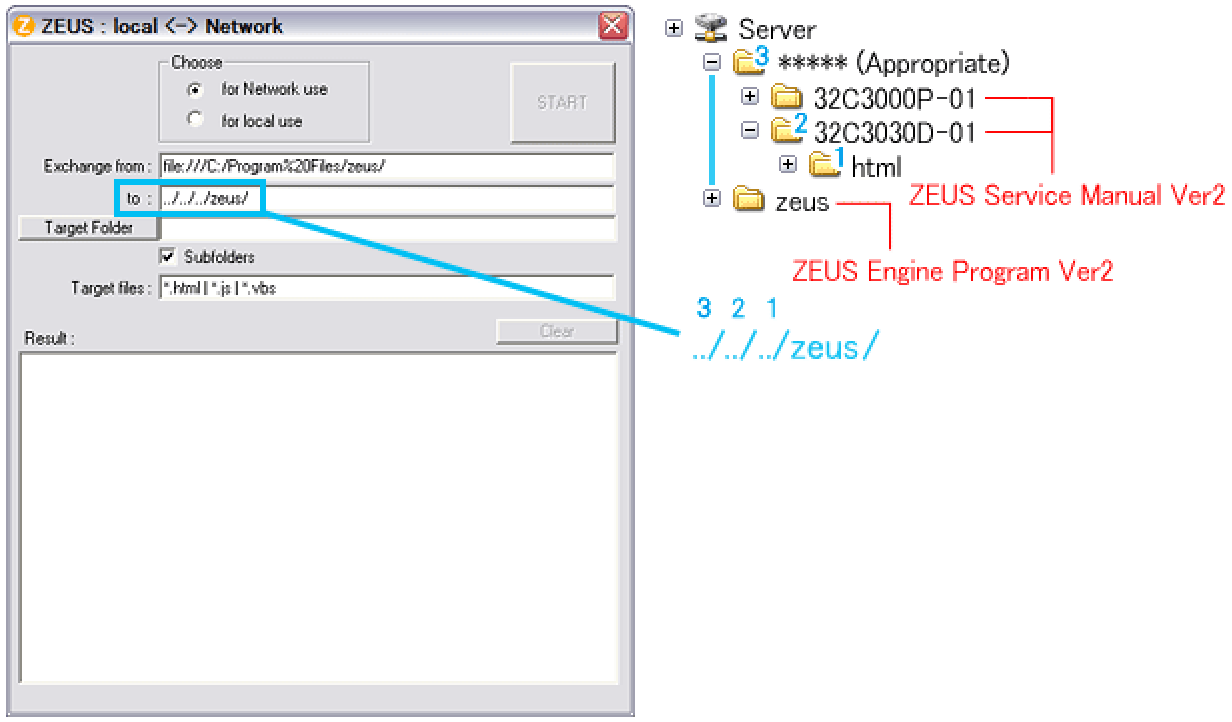
Example 1 :

In the "Exchange to" column shows the relation between ZEUS Service Manual and ZEUS Engine Program.
../ counts the relation between.
Thus in this case, it must be **../../zeus/** (2 counts).


ZEUS : local <-> Network
Choose
● for Network use
○ for local use
Exchange from : file:///C:/Program%20Files/zeus/
to : ../../zeus/
Target Folder
☑ Subfolders
Target files : *.html | *.js | *.vbs
Result :
START
Clear
Server
***** (Appropriate)
32C3000P-01
2
32C3030D-01
1
html
zeus
ZEUS Service Manual Ver2
ZEUS Engine Program Ver2
2 1
../../zeus/

Example 2 :

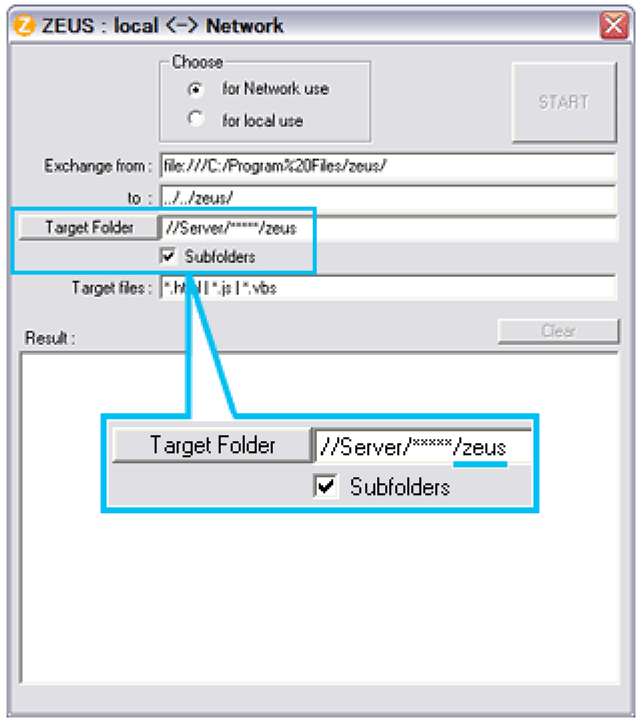
In this case, it must be **../../../zeus/** (3 counts).


ZEUS : local <-> Network
Choose
START
Target Folder
Result :
Clear
Server
***** (Appropriate)
32C3000P-01
32C3030D-01
html
zeus
ZEUS Service Manual Ver2
ZEUS Engine Program Ver2
3 2 1
../../../zeus/

● for Network use
○ for local use
Exchange from : file:///C:/Program%20Files/zeus/
to : ../../../zeus/
☑ Subfolders
Target files : *.html | *.js | *.vbs

2. Run the zeusFPch to change the path in the ZEUS Engine Program Ver.2.

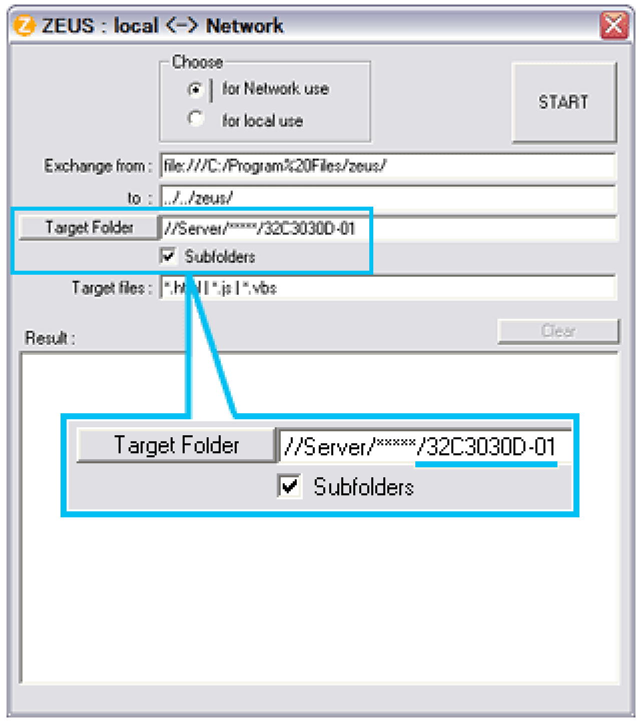
3. Set ZEUS Engine Program in the created folder in the server to the "Target Folder", and then press "START".
   (This procedure is one time only)


ZEUS : local <-> Network
Choose
START
Result :
Clear

● for Network use
○ for local use
Exchange from : file:///C:/Program%20Files/zeus/
to : ../../zeus/
Target Folder //Server/*****/zeus
☑ Subfolders
Target files : *.html | *.js | *.vbs

4. Run the ZeusFPch to change the path in the ZEUS Service Manual Ver2.

5. Set unzipped ZEUS Service Manual in the created folder in the server to the "Target Folder", and then press "START".
   (This procedure is required whenever placing service manual.)



Choose: ● for Network use ○ for local use

Exchange from : file:///C:/Program%20Files/zeus/

to : ../../zeus/

Target Folder //Server/*****/32C3030D-01

☑ Subfolders

Target files : *.html | *.js | *.vbs

Result :

Target Folder //Server/*****/32C3030D-01

☑ Subfolders

Confirmation

Confirm that service manual on the server can be operated normally by client PC.

Note:

In case of accessing the ZEUS Manual through WEB site, the small pop-up window appears at the left bottom corner on the screen whenever searching the location links. This is not malfunction.

IMPORTANT NOTICE

A Known Malfunction

Autodesk® DWF™ Viewer version (Free software provided through WEB)

Use Autodesk DWF Viewer ver. 6.0.
Through WEB, ver. 6.5 has been released but with it, the linking function in this manual may not work properly.
If ver. 6.5 has been installed, uninstall it and reinstall ver. 6.0.

To get ver. 6.0, click the icon, or contact to the nearest Toshiba Service Centre for further assistance.

Freezing windows opened (Cannot close the open windows)

This may happen occasionally.
In case of encountering this, follow the procedure below.

1. Press [Ctrl], [Alt] and [Delete] keys at the same time to engage windows security windows.
2. Then, choose TASK manager and Application tab, and select TOSHIBA SERVICE MANUAL-Microsoft Internet Explorer.
3. Click TASK-end.

Main Window back forwarded

The real cause has not been found yet but with this condition, nothing disturbs the service manual operation.

Continue to use by operating the windows.

Precaution when opening the diagrams

While opening the diagrams, the menu in the left frame changes its color to GRAY. This is an indication that the viewer is processing.

With this condition, the menu indication color may stick to the GRAY color or Windows may freeze if clicking other menu.

To avoid such things, do not operate any others while menu turns GRAY color.

If entering this, re-open the service manual or refresh the left frame.

GREEN PRODUCT PROCUREMENT

The EC is actively promoting the WEEE & RoHS Directives that define standards for recycling and reuse of Waste Electrical and Electronic Equipment and for the Restriction of the use of certain Hazardous Substances. From July 1, 2006, the RoHS Directive will prohibit any marketing of new products containing the restricted substances.

Increasing attention is given to issues related to the global environmental. Toshiba Corporation recognizes environmental protection as a key management tasks, and is doing its utmost to enhance and improve the quality and scope of its environmental activities. In line with this, Toshiba proactively promotes Green Procurement, and seeks to purchase and use products, parts and materials that have low environmental impacts.

Green procurement of parts is not only confined to manufacture. The same green parts used in manufacture must also be used as replacement parts.

LEAD-FREE SOLDER

This product is manufactured using lead-free solder as a part of a movement within the consumer products industry at large to be environmentally responsible. Lead-free solder must be used in the servicing and repair of this product.

WARNING: This product is manufactured using lead free solder.
DO NOT USE LEAD BASED SOLDER TO REPAIR THIS PRODUCT!

The melting temperature of lead-free solder is higher than that of leaded solder by 86ºF to 104ºF (30ºC to 40ºC). Use of a soldering iron designed for lead-based solders to repair product made with lead-free solder may result in damage to the component and or PCB being soldered. Great care should be made to ensure high-quality soldering when servicing this product especially when soldering large components, through-hole pins, and on PCBs as the level of heat required to melt lead-free solder is high.

SAFETY INSTRUCTION

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

Safety Precaution

WARNING: SERVICING SHOULD NOT BE ATTEMPTED BY ANYONE UNFAMILIAR WITH THE NECESSARY PRECAUTIONS ON THIS RECEIVER. THE FOLLOWING ARE THE NECESSARY PRECAUTIONS TO BE OBSERVED BEFORE SERVICING THIS CHASSIS.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.

2. Always disconnect the power plug before any disassembling of the product. It may result in electrical shock.

3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network, etc.

4. Always keep tools, components of the product, etc away from the children, These items may cause injury to children.

5. Depending on the model, use an isolation transformer or wear suitable gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.

6. Always use the replacement parts specified for the particular model when making repairs. The parts used in products require special safety characteristics such as

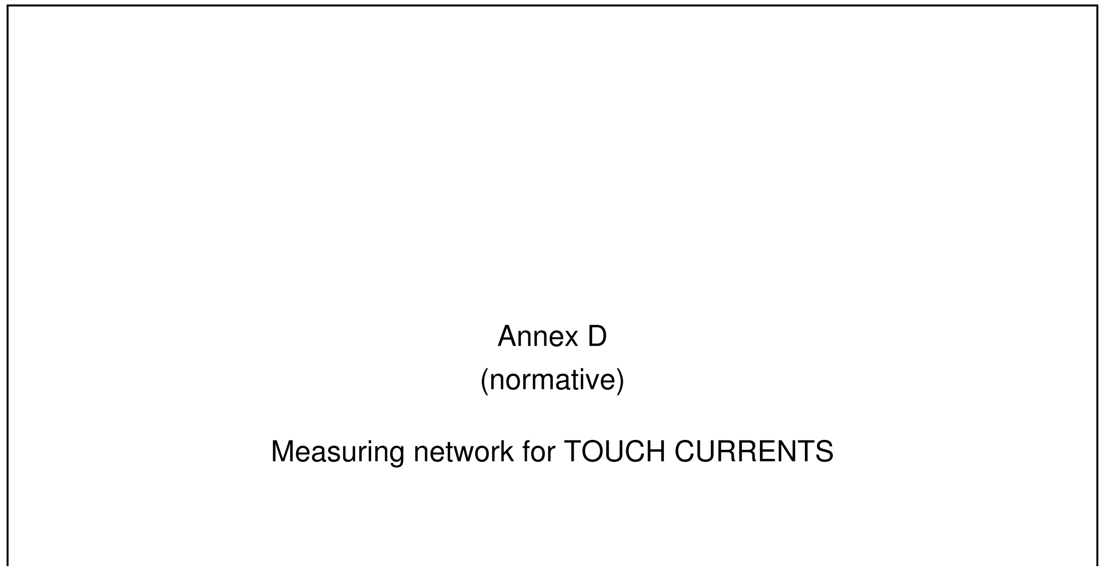
inflammability, voltage resistance, etc. therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the ⚠ mark is indicated in the circuit diagram or parts list.

7. Parts mounting and routing dressing of wirings should be the same as that used originally. For safety purposes, insulating materials such as isolation tube or tape are sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wirings is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the manufactured wiring routes / dressings.

8. Always ensure that all internal wirings are in accordance before re-assembling the external casing after a repairing completed. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.

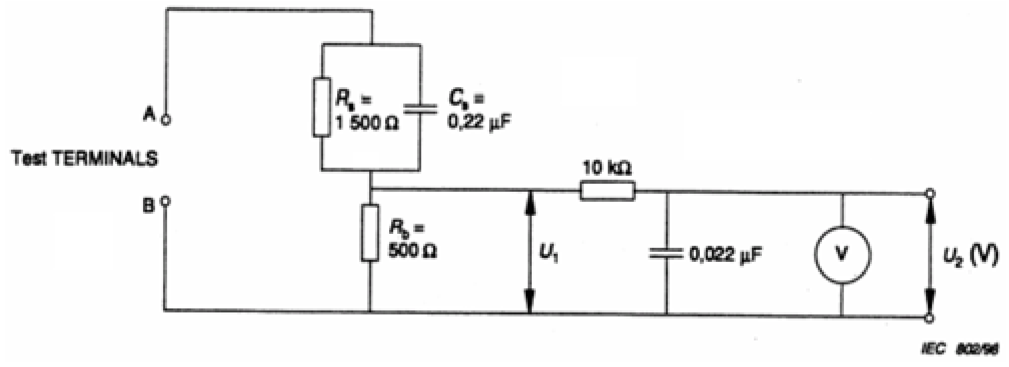
9. NEVER remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous.

10. Touch current check. (After completing the work, measure touch current to prevent an electric shock.)
    - Plug the AC cord directly into the AC outlet. Do NOT use an isolation transformer for this check.
    - Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe.



Annex D
(normative)

Measuring network for TOUCH CURRENTS



Resistance values in orms (Ω).

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance : ≧ 1 MΩ
Input capacitance : ≦ 200 pF
Frequency range : 15 Hz to 1 MHz and d.c. respectively

Note: Appropriate measures should be taken to obtain the correct value in case of non sinusoidal waveforms.

The measuring instrument is calibrated by comparing the frequency factor of U_2 with the solid line in figure F.2 of IEC 60990 at various frequencies. A calibration curve is constructed showing the deviation of U_2 from the ideal curve as a function of frequency.

TOUCH CURRENT = U_2/500 (peak value).

- The potential at any point (TOUCH CURRENT) expressed as voltage U_1 and U_2 does not exceed the following value:

The part or contact of a TERMINAL is not HAZARDOUS LIVE if:

a) The open-circuit voltage should not exceed 35 V (peak) a.c. or 60 V d.c. or, if a) is not met.
b) The measurement of the TOUCH CURRENT shall be carried out in accordance with IEC 60990, with the measuring network described in **Annex D** of this standard.

The TOUCH CURRENT expressed as voltages U_1 and U_2, does not exceed the following values:
- for a.c. : U_1 = 35 V (peak) and U_2 = 0.35 V (peak);
- for d.c. : U_1 = 1.0 V

Note: The limit values of U_2 = 0.35 V (peak) for a.c. and U_1 = 1.0 V for d.c. correspond to the values 0.7 mA (peak) a.c. and 2.0 mA d.c.

Product Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create electrical shock, fire, or other hazards.

SAFETY INSTRUCTION

Handling the LCD Module

Safety Precaution

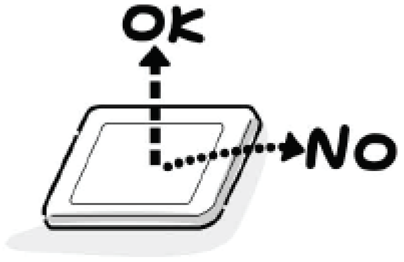
In the event that the screen is damaged or the liquid crystal (fluid) leaks, do not breathe in or drink this fluid.
Also, never touch this fluid. Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the eyes, immediately rinse the eyes thoroughly with running water.

Precautions for Handling the LCD Module

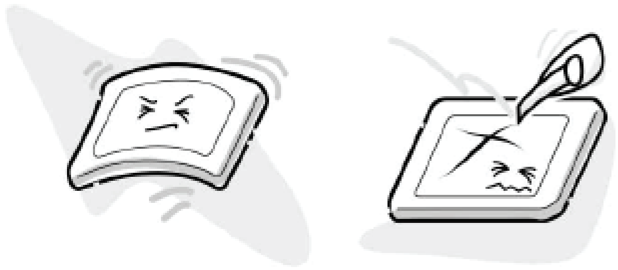
CAUTION: The metal edges of the LCD module are sharp, handle it with care.

The LCD module can easily be damaged during disassembly or reassembly; therefore, always observe the following precautions when handling the module.

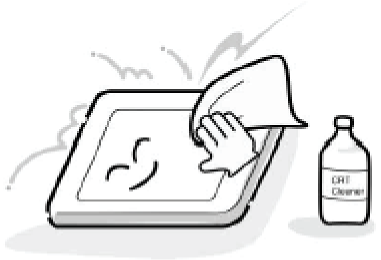
1. When attaching the LCD module to the LCD cover, position it appropriately and fasten at the position where the display can be viewed most conveniently.



2. Carefully align the holes at all four corners of the LCD module with the corresponding holes in the LCD cover and fasten with screws. Do not strongly push on the module because any impact can adversely affect the performance. Also use caution when handling the polarized screen because it can easily be damaged.



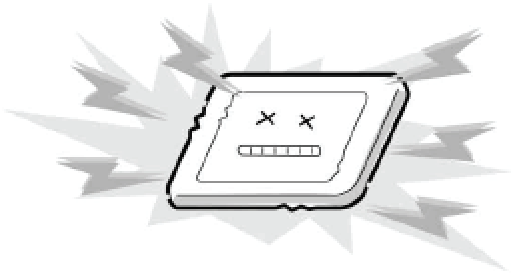
3. If the panel surface becomes soiled, wipe with cotton or a soft cloth. If this does not remove the soiling, breathe on the surface and then wipe again.
   If the panel surface is extremely solied, use a CRT cleaner as a cleaner. Wipe off the panel surface by drop the cleaner on the cloth. Do not drop the cleaner on the panel.
   Pay attention not to scratch the panel surface.



4. Leaving water or other fluids on the panel screen for an extended period of time can result in discoloration or stripes. Immediately remove any type of fluid from the screen.

5. Glass is used in the panel, so do not drop or strike with hard objects. Such actions can damage the panel.

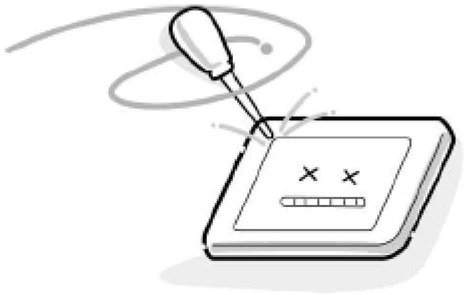
6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.



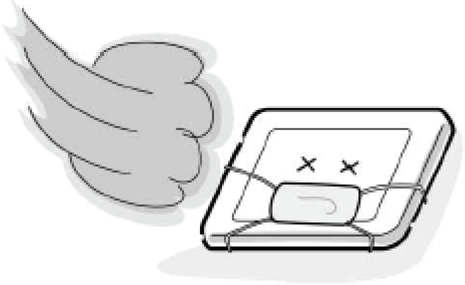
7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.

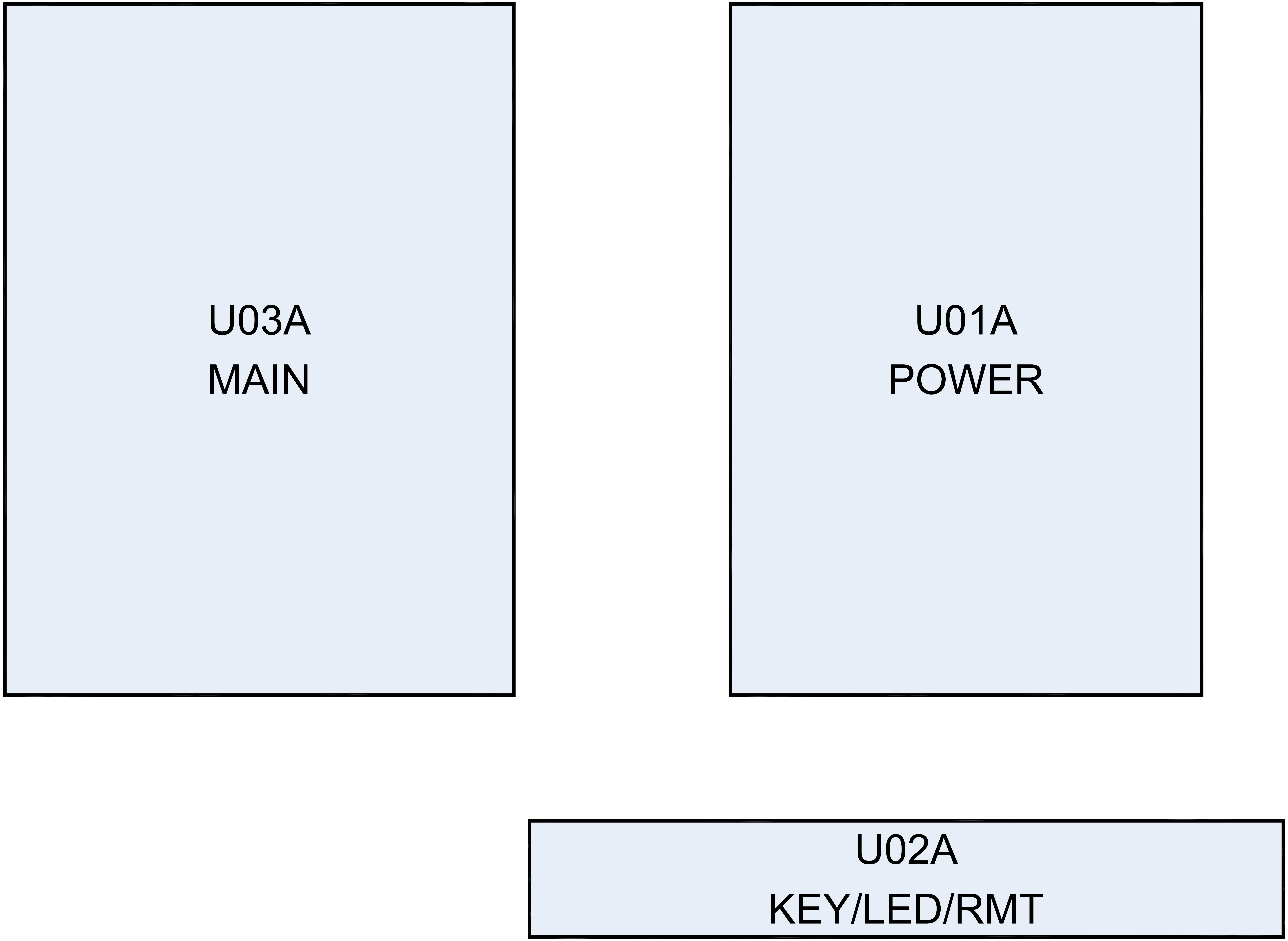
8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.

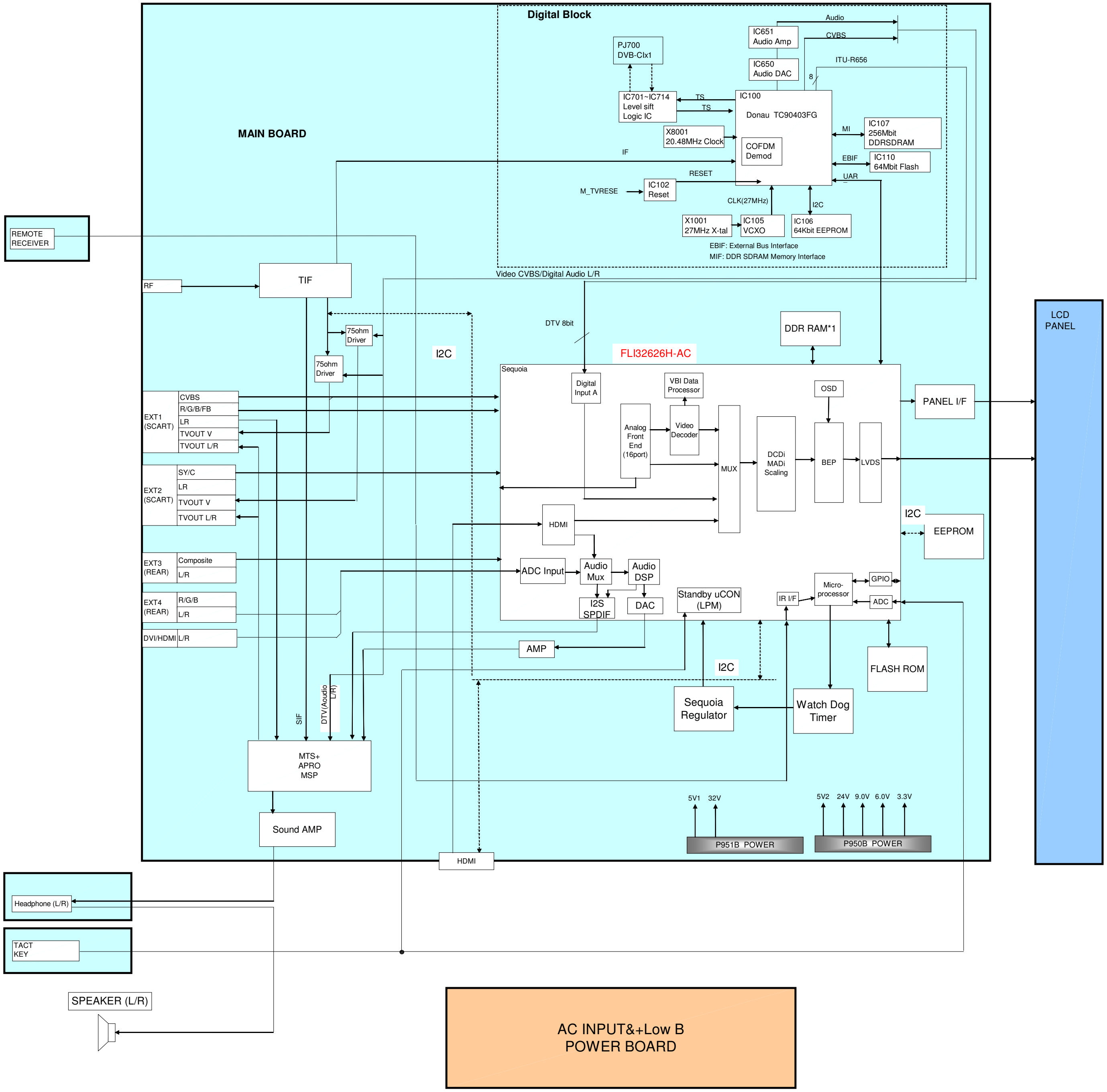
9. Do not disassemble the LCD module. Such actions could result in improper operation.



10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.




U03A
MAIN
U01A
POWER
U02A
KEY/LED/RMT



Digital Block
MAIN BOARD
PJ700
DVB-CIx1
IC651
Audio Amp
IC650
Audio DAC
Audio
CVBS
ITU-R656
8
IC701~IC714
Level sift
Logic IC
TS
TS
IC100
Donau TC90403FG
X8001
20.48MHz Clock
COFDM
Demod
MI
IC107
256Mbit
DDRSDRAM
EBIF
IC110
64Mbit Flash
UAR
IF
RESET
M_TVRESE
IC102
Reset
CLK(27MHz)
I2C
X1001
27MHz X-tal
IC105
VCXO
IC106
64Kbit EEPROM
EBIF: External Bus Interface
MIF: DDR SDRAM Memory Interface
Video CVBS/Digital Audio L/R
REMOTE
RECEIVER
RF
TIF
DTV 8bit
DDR RAM*1
75ohm
Driver
75ohm
Driver
I2C
FLI32626H-AC
Sequoia
Digital
Input A
VBI Data
Processor
OSD
Analog
Front
End
(16port)
Video
Decoder
MUX
DCDi
MADi
Scaling
BEP
LVDS
PANEL I/F
LCD
PANEL
EXT1
(SCART)
CVBS
R/G/B/FB
LR
TVOUT V
TVOUT L/R
EXT2
(SCART)
SY/C
LR
TVOUT V
TVOUT L/R
HDMI
I2C
EEPROM
EXT3
(REAR)
Composite
L/R
EXT4
(REAR)
R/G/B
L/R
DVI/HDMI
L/R
ADC Input
Audio
Mux
Audio
DSP
I2S
SPDIF
DAC
Standby uCON
(LPM)
IR I/F
Micro-
processor
GPIO
ADC
AMP
FLASH ROM
I2C
Sequoia
Regulator
Watch Dog
Timer
SIF
DTV(Aoudio
L/R)
MTS+
APRO
MSP
Sound AMP
HDMI
5V1
32V
P951B POWER
5V2
24V
9.0V
6.0V
3.3V
P950B POWER
Headphone (L/R)
TACT
KEY
SPEAKER (L/R)
AC INPUT&+Low B
POWER BOARD

SCHEMATIC DIAGRAM

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" FOR DIRECT VIEW CTV ONLY, "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SAFETY PRECAUTION and PRODUCT SAFETY NOTICE.

Do not degrade the safety of the receiver through improper servicing.

Note:

1. RESISTOR
   Resistance is shown in ohm [K=1,000, M=1,000,000]. All resistors are 1/6 W and 5 % tolerance carbon resistor, unless otherwise noted as the following marks.

   1/2R : Metal or Metal oxide of 1/2 watt
   1/2S : Carbon composition of 1/2 watt
   1RF : Fuse resistor of 1 watt
   10 W : Cement of 10 watt
   K : ±10 %
   G : ±2 %
   F : ±1 %

2. CAPACITOR
   Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in µF, and the values more than 1 in pF.
   All capacitors are ceramic 50 V, unless otherwise noted as the following marks.

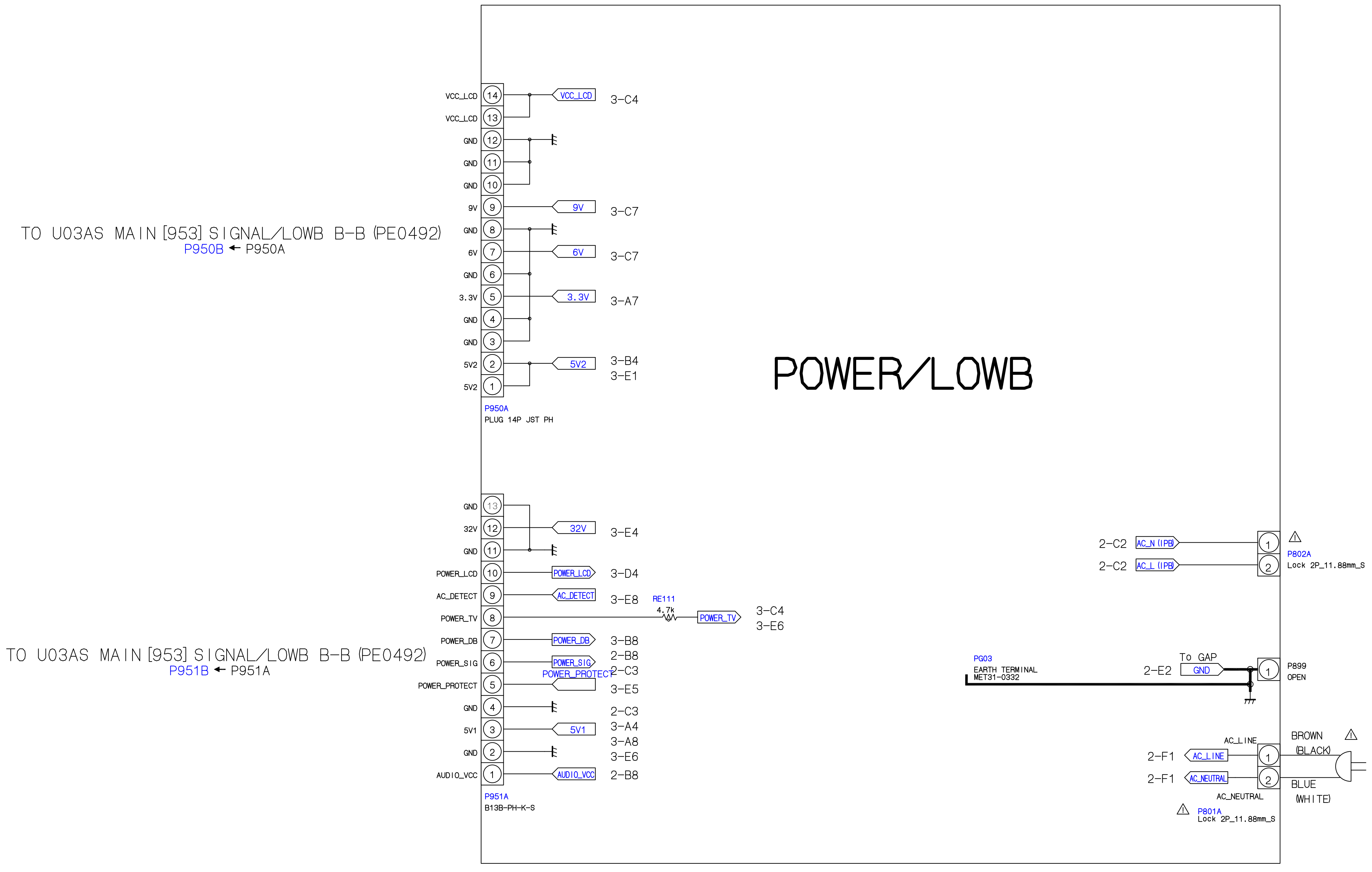
    +┤├ = Electrolytic capacitor
    Ⓜ┤├ = Mylar capacitor

3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.

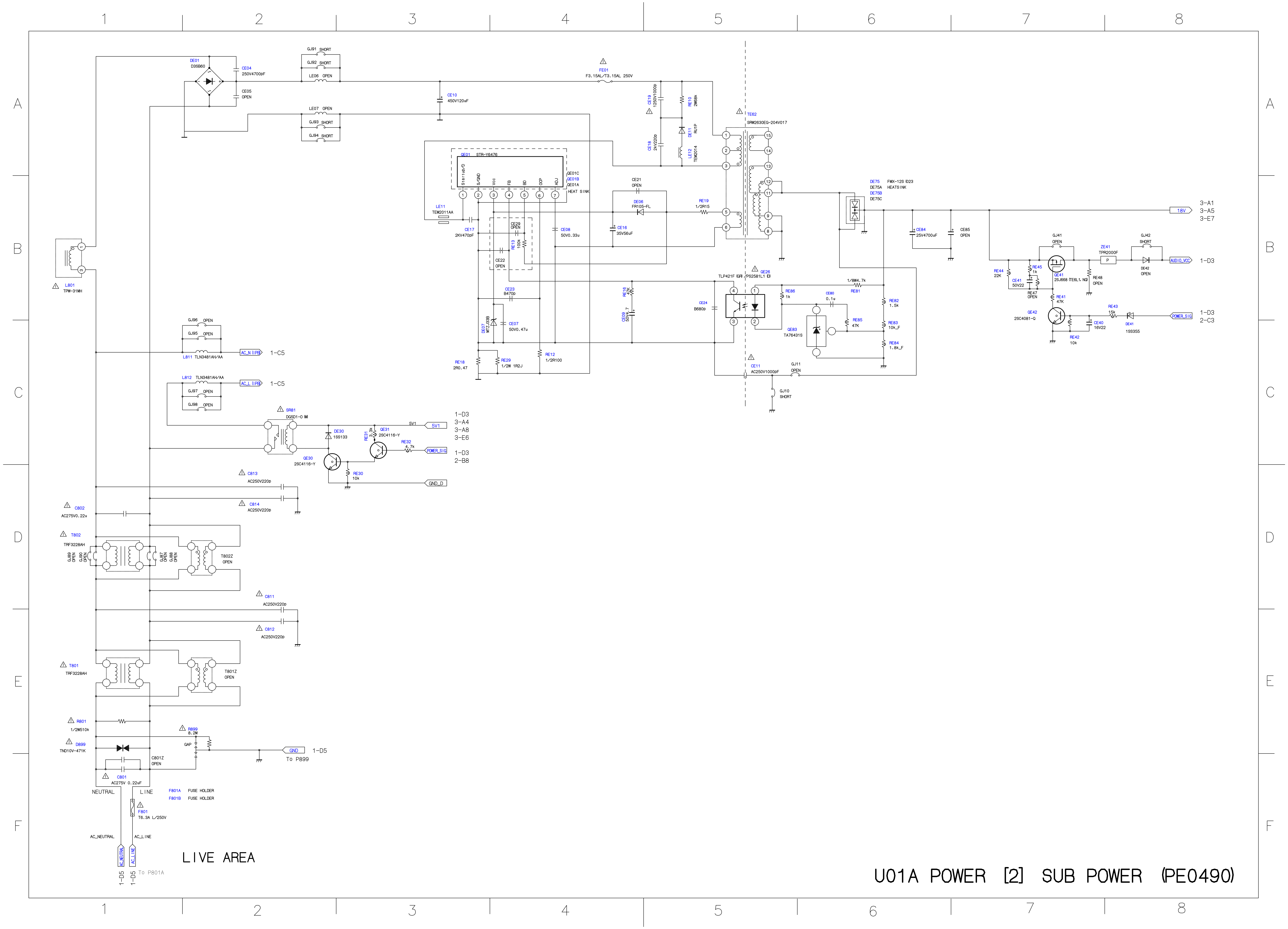
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassis ground, using a color bar signal with all controls at normal, line voltage at nominal AC volts.

5. Waveforms are taken receiving color bar signal with enough sensitivity.

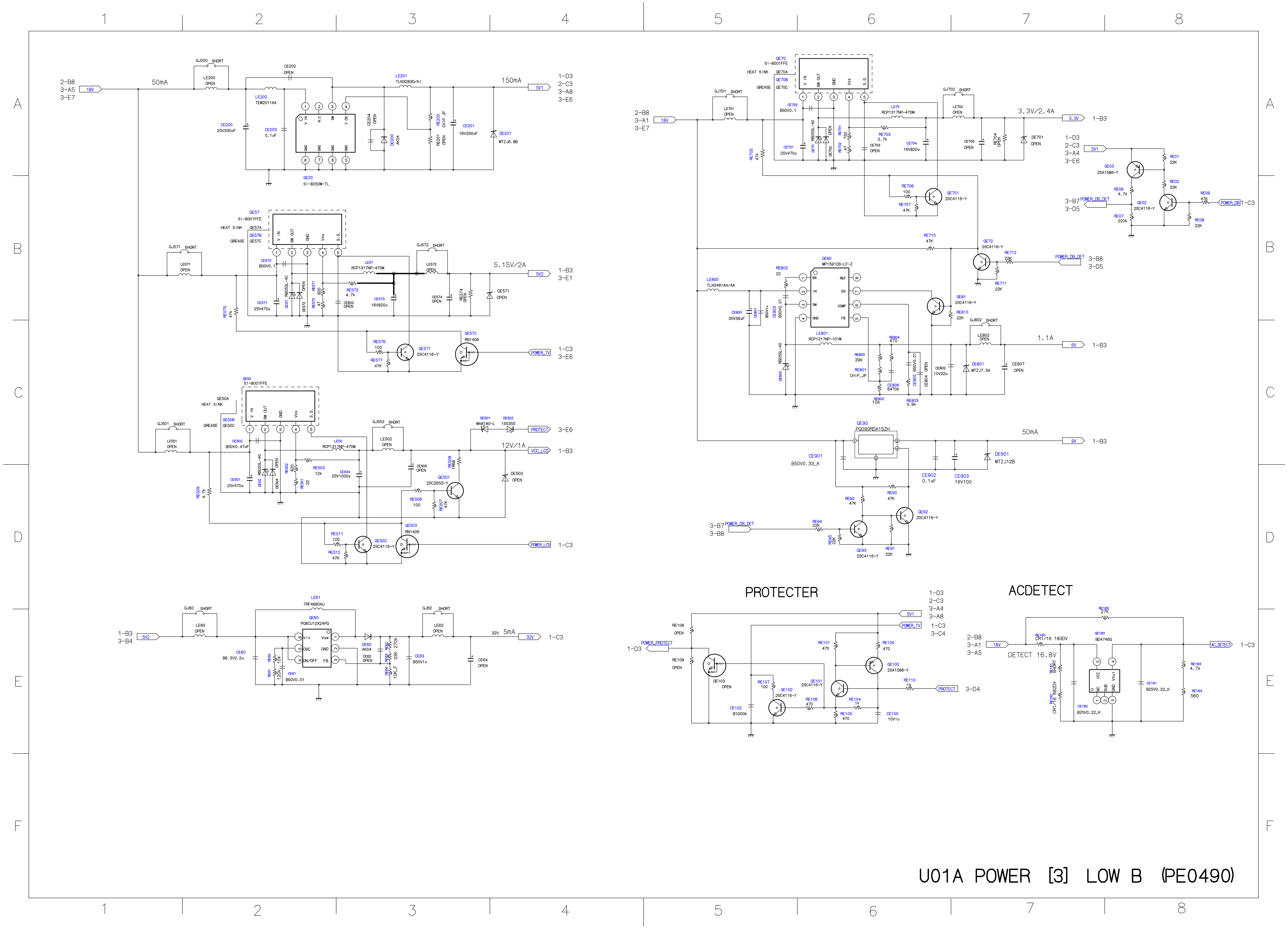
6. Voltage reading shown are nominal values and may vary ±20 % except H.V.


POWER/LOWB
TO U03AS MAIN [953] SIGNAL/LOWB B-B (PE0492)
P950B ← P950A
VCC_LCD 14
VCC_LCD 13
GND 12
GND 11
GND 10
9V 9
GND 8
6V 7
GND 6
3.3V 5
GND 4
GND 3
5V2 2
5V2 1
VCC_LCD 3-C4
9V 3-C7
6V 3-C7
3.3V 3-A7
5V2 3-B4 3-E1
P950A
PLUG 14P JST PH
TO U03AS MAIN [953] SIGNAL/LOWB B-B (PE0492)
P951B ← P951A
GND 13
32V 12
GND 11
POWER_LCD 10
AC_DETECT 9
POWER_TV 8
POWER_DB 7
POWER_SIG 6
POWER_PROTECT 5
GND 4
5V1 3
GND 2
AUDIO_VCC 1
32V 3-E4
POWER_LCD 3-D4
AC_DETECT 3-E8
RE111
4.7k
POWER_TV 3-C4 3-E6
POWER_DB 3-B8
POWER_SIG 2-B8
POWER_PROTECT 2-C3 3-E5
2-C3
5V1 3-A4 3-A8 3-E6
AUDIO_VCC 2-B8
P951A
B13B-PH-K-S
2-C2 AC_N (IPB) 1
2-C2 AC_L (IPB) 2
⚠
P802A
Lock 2P_11.88mm_S
PG03
EARTH TERMINAL
MET31-0332
To GAP
2-E2 GND 1
P899
OPEN
AC_LINE
2-F1 AC_LINE 1
2-F1 AC_NEUTRAL 2
AC_NEUTRAL
BROWN (BLACK)
BLUE (WHITE)
⚠
⚠ P801A
Lock 2P_11.88mm_S

U01A POWER [1] CONNECTOR (PE0490)

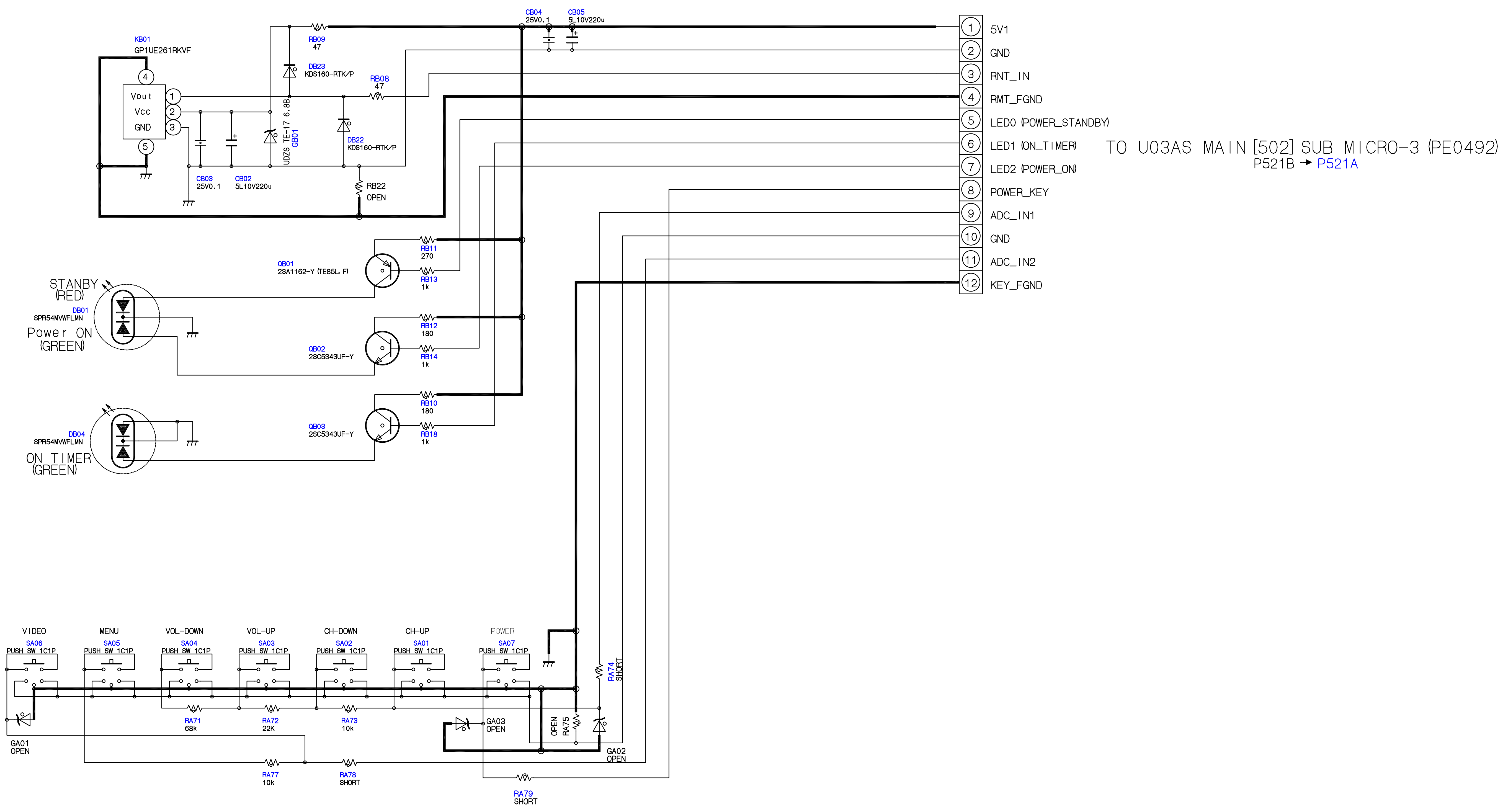

1
2
3
4
5
6
7
8
A
B
C
D
E
F
DE01
D3SB60
CE04
250V4700pF
CE05
OPEN
GJ91 SHORT
GJ92 SHORT
LE06 OPEN
LE07 OPEN
GJ93 SHORT
GJ94 SHORT
CE10
450V120uF
FE01
F3.15AL/T3.15AL 250V
CE19
1250V1000p
RE10
2W68k
DE11
RU1P
CE18
2kV220p
LE12
TEM2014
TE62
SRW2630EG-204V017
QE01 STR-Y6476
Startup/D
S/GND
Vcc
FB
BD
OCP
ADJ
QE01C
QE01B
QE01A
HEAT SINK
LE11
TEM2011AA
CE17
2KV470pF
CE29
OPEN
RE13
100k
CE22
OPEN
CE08
50V0.33u
CE21
OPEN
DE06
FR105-FL
CE16
35V56uF
RE19
1/2R15
CE23
B470p
DE07
MTZJ33B
CE07
50V0.47u
RE18
2R0.47
RE29
1/2W 1R2J
RE12
1/2R100
RE16
47K
CE09
50V4.7
CE24
B680p
QE26
TLP421F (GR) /PS2581L1 (D)
RE86
1k
CE80
0.1u
RE81
1/8W4.7k
RE85
47K
QE83
TA76431S
RE82
1.5k
RE83
10k_F
RE84
1.8k_F
CE11
AC250V1000pF
GJ11
OPEN
GJ10
SHORT
DE75 FMX-12S (023
DE75A HEATSINK
DE75B
DE75C
CE84
25V4700uF
CE85
OPEN
18V
3-A1
3-A5
3-E7
GJ41
OPEN
ZE41
TPR2000F
P
GJ42
SHORT
AUDIO_VCC
1-D3
DE42
OPEN
RE44
22K
RE45
1k
CE41
50V22
RE47
OPEN
QE41
2SJ668 (TE6L1, NQ)
RE48
OPEN
RE41
47K
QE42
2SC4081-Q
RE42
10k
CE40
16V22
RE43
15k
DE41
1SS355
POWER_SIG
1-D3
2-C3
L801
TPW-31MH
GJ96 OPEN
GJ95 OPEN
L811 TLN3481AH/AA
AC_N (IPB)
1-C5
L812 TLN3481AH/AA
AC_L (IPB)
1-C5
GJ97 OPEN
GJ98 OPEN
SR81
DG5D1-0 (M)
DE30
1SS133
RE31
3.3k
QE31
2SC4116-Y
5V1
5V1
1-D3
3-A4
3-A8
3-E6
RE32
4.7k
POWER_SIG
1-D3
2-B8
QE30
2SC4116-Y
RE30
10k
GND_D
C813
AC250V220p
C814
AC250V220p
C802
AC275V0.22u
T802
TRF3228AH
GJ89 OPEN
GJ90 OPEN
GJ87 OPEN
GJ88 OPEN
T802Z
OPEN
C811
AC250V220p
C812
AC250V220p
T801
TRF3228AH
T801Z
OPEN
R801
1/2W510k
R899
8.2M
GAP
D899
TND10V-471K
GND
1-D5
To P899
C801Z
OPEN
C801
AC275V 0.22uF
NEUTRAL
LINE
F801A FUSE HOLDER
F801B FUSE HOLDER
F801
T6.3A L/250V
AC_NEUTRAL
AC_LINE
AC_NEUTRAL
AC_LINE
1-D5
1-D5
To P801A
LIVE AREA

U01A POWER [2] SUB POWER (PE0490)

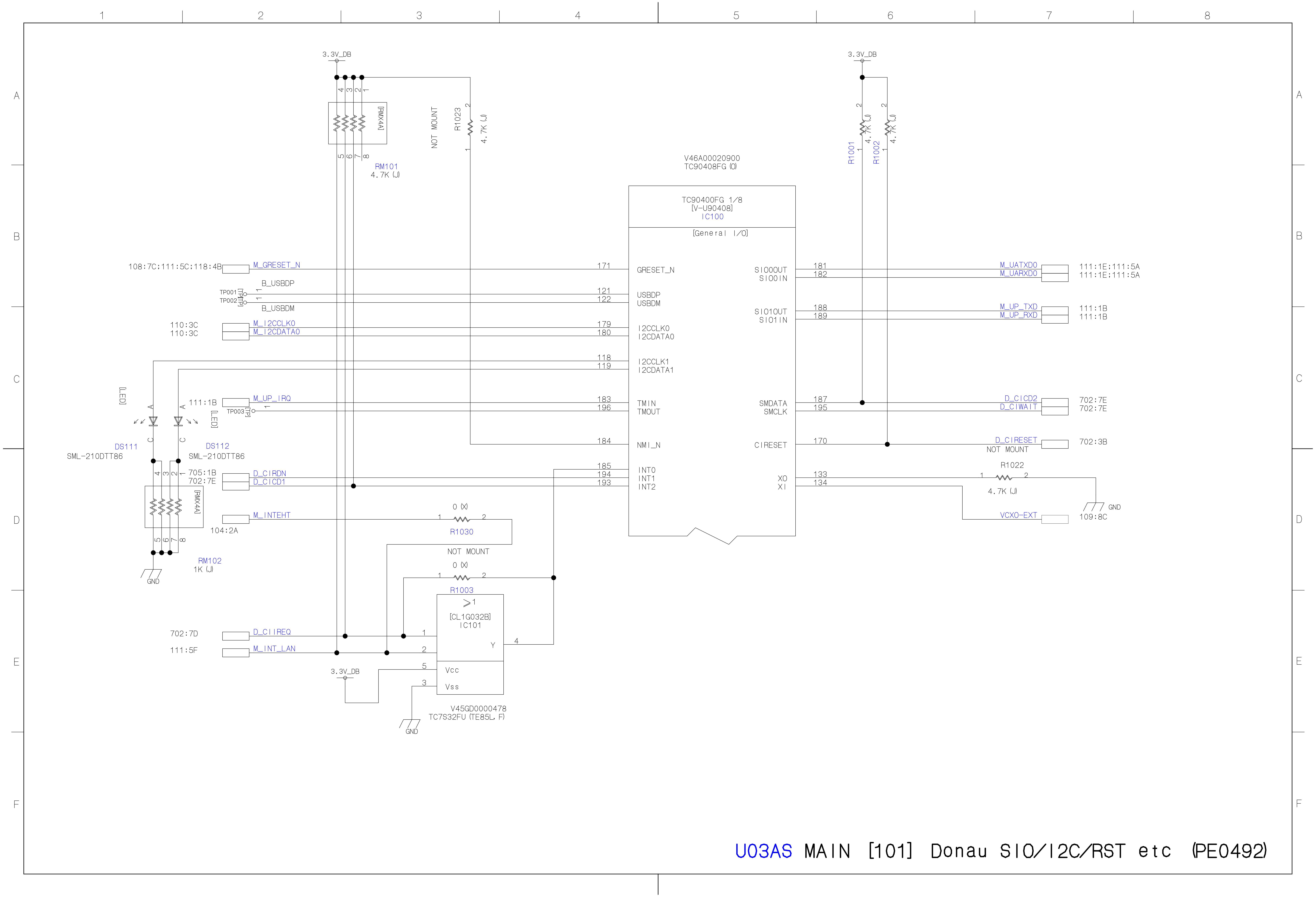

1
2
3
4
5
6
7
8
A
B
C
D
E
F
2-B8
3-A5
3-E7
18V
50mA
GJ200 SHORT
LE200 OPEN
CE202 OPEN
LE202 TEM2011AA
CE200 25V330uF
CE203 0.1uF
QE20 SI-8050W-TL
V IN
N.C
SW
VOS
GND
CE204 OPEN
DE200 AK04
LE201 TLN3283D/AI
RE200 CHIP_JP
RE201 OPEN
CE201 16V330uF
DE201 MTZJ6.8B
150mA
5V1
1-D3
2-C3
3-A8
3-E6
QE57 SI-8001FFE
HEAT SINK QE57A
QE57B
GREASE QE57C
GJ571 SHORT
LE571 OPEN
CE572 B50V0.1
CE571 25V470u
RB055L-40
DE572 OPEN
RE571 820
RE572 47
LE57 RCP1317NP-470M
RE573 4.7k
CE602 OPEN
CE573 16V820u
GJ572 SHORT
LE572 OPEN
CE574 OPEN
RE574 OPEN
DE571 OPEN
5.15V/2A
5V2
1-B3
3-E1
RE575 47K
RE576 100
RE577 47K
QE571 2SC4116-Y
QE572 RN1406
POWER_TV
1-C3
3-E6
QE50 SI-8001FFE
QE50A HEAT SINK
QE50B
GREASE QE50C
GJ501 SHORT
LE501 OPEN
CE502 B50V0.47uF
CE501 25V470u
RB055L-40
DE504 OPEN
RE502 820
RE501 22
RE503 12k
LE50 RCP1317NP-470M
CE504 25V1000u
GJ502 SHORT
LE502 OPEN
CE505 OPEN
RE508 18K
QE501 2SC2655-Y
RE506 100
RE507 47K
DE501 MA8180-L
DE502 1SS355
PROTECT
3-E6
12V/1A
VCC_LCD
1-B3
DE503 OPEN
RE509 4.7k
RE511 100
RE512 47K
QE502 2SC4116-Y
QE503 RN1406
POWER_LCD
1-C3
LE61 TRF4680AU
GJ60 SHORT
LE60 OPEN
1-B3
3-B4
5V2
CE60 B6.3V2.2u
QE60 PQ6CU12X2APQ
Vin
Vsw
OSC
GND
ON/OFF
FB
RE60 10K
RE61 120K
CE61 B50V0.01
DE60 AK04
CE62 OPEN
RE62 270K
RE63 39K
RE64 10K_F
CE63 B50V1u
GJ62 SHORT
LE62 OPEN
CE64 OPEN
32V 5mA
32V
1-C3
QE70 SI-8001FFE
HEAT SINK QE70A
QE70B
GREASE QE70C
GJ701 SHORT
LE701 OPEN
2-B8
3-A1
3-E7
18V
CE702 B50V0.1
CE701 25V470u
RE705 47k
RB055L-40
DE702 OPEN
RE701 750
RE702 47
LE70 RCP1317NP-470M
RE703 2.7k
CE703 OPEN
CE704 16V820u
GJ702 SHORT
LE702 OPEN
CE705 OPEN
RE704 OPEN
DE701 OPEN
3.3V/2.4A
3.3V
1-B3
RE706 100
RE707 47K
QE701 2SC4116-Y
1-D3
2-C3
3-A4
3-E6
5V1
QE03 2SA1586-Y
RE01 22K
RE02 22K
RE06 4.7k
RE07 220k
QE02 2SC4116-Y
RE09 47K
RE08 22K
3-B7 POWER_DB_DET
3-D5
POWER_DB
1-C3
RE710 47K
QE72 2SC4116-Y
RE712 22K
RE711 22K
POWER_DB_DET
3-B8
3-D5
QE80 MP1591DS-LF-Z
RE805 22
LE800 TLN3481AH/AA
BS
IN
SW
GND
REF
EN
COMP
FB
CE800 35V56uF
CE801 B50V1u
CE803 B50V0.01
QE81 2SC4116-Y
RE810 22K
GJ802 SHORT
LE802 OPEN
LE801 RCP1317NP-101M
RE804 470
RE800 39k
RE801 CHIP_JP
CE805 B50V0.01
CE804 OPEN
CE806 B470p
RE802 10k
RE803 3.9k
RB055L-40
DE800
CE802 10V22u
DE801 MTZJ7.5A
CE807 OPEN
1.1A
6V
1-B3
QE90 PQ090RDA1SZH
50mA
9V
1-B3
CE901 B50V0.33_K
CE902 0.1uF
CE903 16V100
DE901 MTZJ12B
RE92 47K
RE93 47K
QE92 2SC4116-Y
3-B7 POWER_DB_DET
3-B8
RE94 22K
RE95 22K
QE93 2SC4116-Y
RE91 22K
PROTECTER
1-D3
2-C3
3-A4
3-A8
5V1
POWER_TV
1-C3
3-C4
RE108 OPEN
POWER_PROTECT
1-D3
RE109 OPEN
QE103 OPEN
RE101 470
RE100 470
QE100 2SA1586-Y
RE107 100
QE102 2SC4116-Y
QE101 2SC4116-Y
RE110 1k
PROTECT
3-D4
RE106 470
RE104 1k
RE105 470
CE102 B1000p
CE100 10V1u
ACDETECT
RE165 27K
2-B8
3-A1
3-A5
18V
RE160 CR1/16 183DV
DETECT 16.8V
QE160 BD4746G
VCC
NC
SUB
GND
Vout
RE161 SHORT
RE162 CR1/16 682DV
CE160 B25V0.22_K
CE161 B25V0.22_K
RE163 4.7k
RE164 560
AC_DETECT
1-C3

U01A POWER [3] LOW B (PE0490)

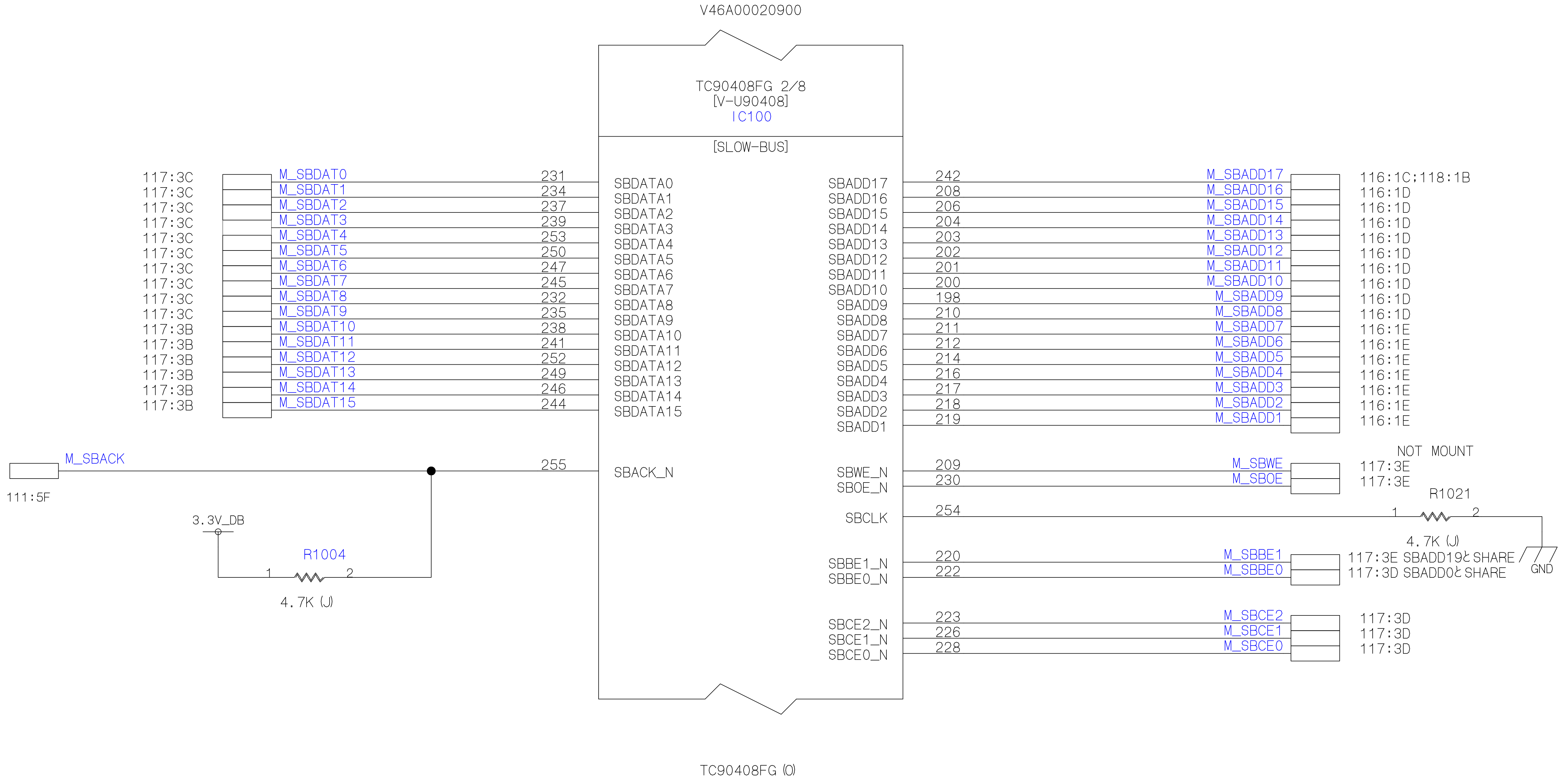
for AV505D SERIES


KB01
GP1UE261RKVF
Vout
Vcc
GND
1
2
3
4
5
RB09
47
DB23
KDS160-RTK/P
RB08
47
UDZS TE-17 6.8B
GB01
DB22
KDS160-RTK/P
CB03
25V0.1
CB02
5L10V220u
RB22
OPEN
CB04
25V0.1
CB05
5L10V220u
QB01
2SA1162-Y (TE85L, F)
RB11
270
RB13
1k
STANBY
(RED)
DB01
SPR54MVWFLMN
Power ON
(GREEN)
QB02
2SC5343UF-Y
RB12
180
RB14
1k
DB04
SPR54MVWFLMN
ON TIMER
(GREEN)
QB03
2SC5343UF-Y
RB10
180
RB18
1k
P521B
S12B-PH-K-S (LF)
1 5V1
2 GND
3 RNT_IN
4 RMT_FGND
5 LED0 (POWER_STANDBY)
6 LED1 (ON_TIMER)
7 LED2 (POWER_ON)
8 POWER_KEY
9 ADC_IN1
10 GND
11 ADC_IN2
12 KEY_FGND
TO U03AS MAIN [502] SUB MICRO-3 (PE0492)
P521B → P521A
VIDEO
SA06
PUSH SW 1C1P
MENU
SA05
PUSH SW 1C1P
VOL-DOWN
SA04
PUSH SW 1C1P
VOL-UP
SA03
PUSH SW 1C1P
CH-DOWN
SA02
PUSH SW 1C1P
CH-UP
SA01
PUSH SW 1C1P
POWER
SA07
PUSH SW 1C1P
RA71
68k
RA72
22K
RA73
10k
GA01
OPEN
GA03
OPEN
OPEN
RA75
RA74
SHORT
GA02
OPEN
RA77
10k
RA78
SHORT
RA79
SHORT

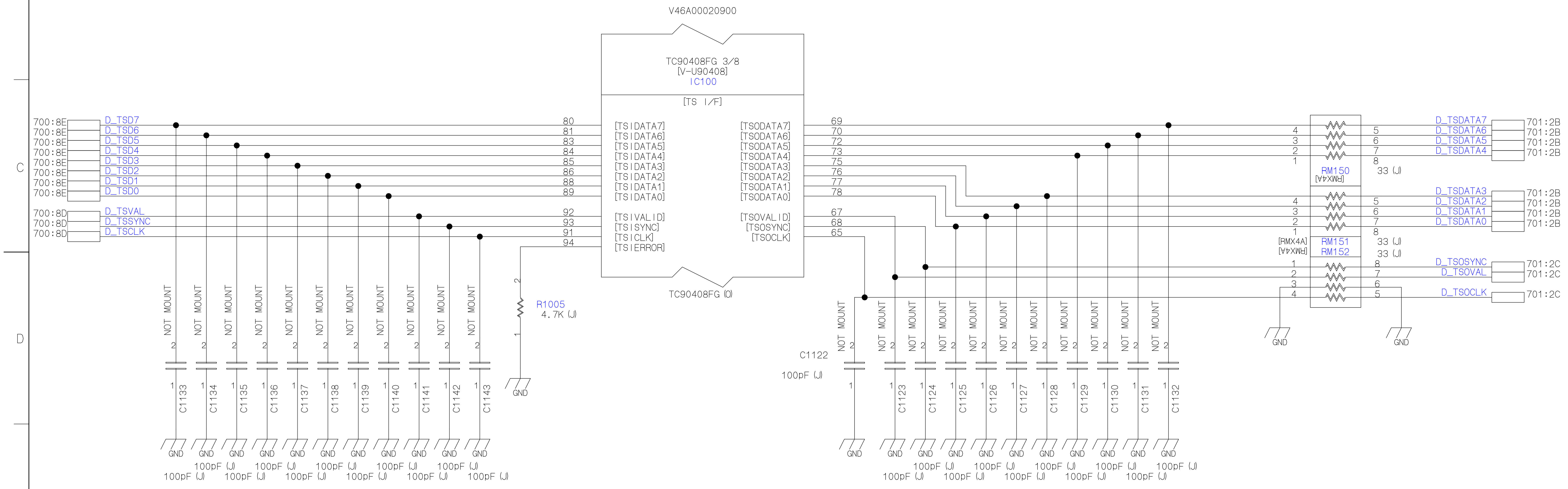
U02A KEY/LED/RMT [8] KEY & LED (PE0491)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
3.3V_DB
4
3
2
1
[RMX4A]
5
6
7
8
RM101
4.7K (J)
NOT MOUNT
R1023
2
1
4.7K (J)
3.3V_DB
2
1
4.7K (J)
R1001
2
1
4.7K (J)
R1002
V46A00020900
TC90408FG (O)
TC90400FG 1/8
[V-U90408]
IC100
[General I/O]
108:7C;111:5C;118:4B
M_GRESET_N
171
GRESET_N
B_USBDP
TP001
TP002
[TP]
[TP]
1
1
B_USBDM
121
122
USBDP
USBDM
110:3C
110:3C
M_I2CCLK0
M_I2CDATA0
179
180
I2CCLK0
I2CDATA0
118
119
I2CCLK1
I2CDATA1
[LED]
A
A
[LED]
111:1B
M_UP_IRQ
TP003
[TP]
1
183
196
TMIN
TMOUT
C
C
DS111
SML-210DTT86
DS112
SML-210DTT86
184
NMI_N
4
3
2
1
705:1B
702:7E
D_CIRDN
D_CICD1
185
194
193
INT0
INT1
INT2
[RMX4A]
5
6
7
8
RM102
1K (J)
GND
M_INTEHT
104:2A
0 (X)
1
2
R1030
NOT MOUNT
0 (X)
1
2
R1003
>1
[CL1G032B]
IC101
Y
4
702:7D
D_CIIREQ
1
111:5F
M_INT_LAN
2
3.3V_DB
5
Vcc
3
Vss
GND
V45GD0000478
TC7S32FU (TE85L, F)
SIO0OUT
SIO0IN
181
182
M_UATXD0
M_UARXD0
111:1E;111:5A
111:1E;111:5A
SIO1OUT
SIO1IN
188
189
M_UP_TXD
M_UP_RXD
111:1B
111:1B
SMDATA
SMCLK
187
195
D_CICD2
D_CIWAIT
702:7E
702:7E
CIRESET
170
D_CIRESET
NOT MOUNT
702:3B
R1022
XO
XI
133
134
1
2
4.7K (J)
GND
VCXO-EXT
109:8C

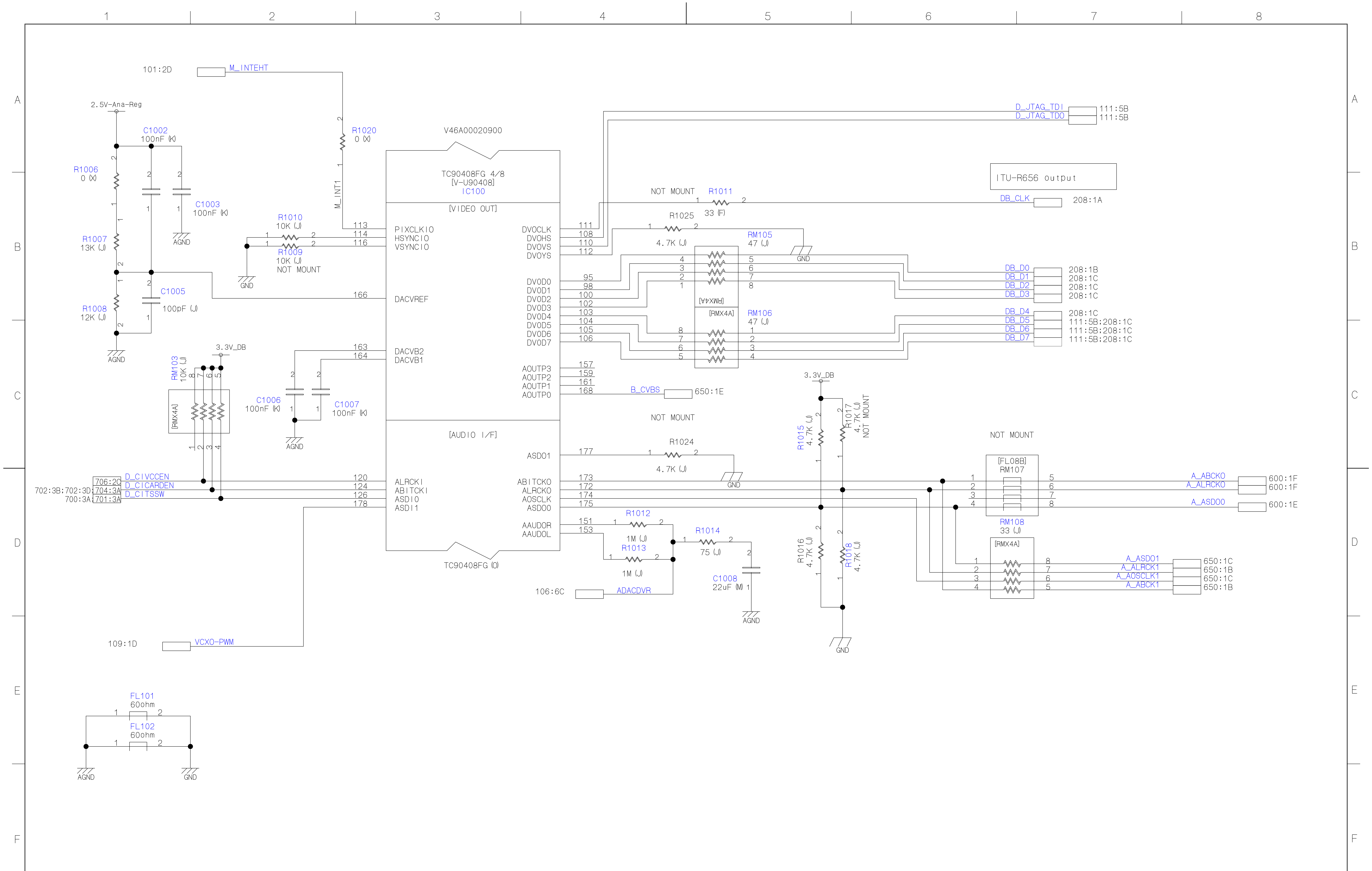
U03AS MAIN [101] Donau SIO/I2C/RST etc (PE0492)


V46A00020900
TC90408FG 2/8
[V-U90408]
IC100
[SLOW-BUS]
117:3C M_SBDAT0 231 SBDATA0
117:3C M_SBDAT1 234 SBDATA1
117:3C M_SBDAT2 237 SBDATA2
117:3C M_SBDAT3 239 SBDATA3
117:3C M_SBDAT4 253 SBDATA4
117:3C M_SBDAT5 250 SBDATA5
117:3C M_SBDAT6 247 SBDATA6
117:3C M_SBDAT7 245 SBDATA7
117:3C M_SBDAT8 232 SBDATA8
117:3C M_SBDAT9 235 SBDATA9
117:3B M_SBDAT10 238 SBDATA10
117:3B M_SBDAT11 241 SBDATA11
117:3B M_SBDAT12 252 SBDATA12
117:3B M_SBDAT13 249 SBDATA13
117:3B M_SBDAT14 246 SBDATA14
117:3B M_SBDAT15 244 SBDATA15
M_SBACK
111:5F
255 SBACK_N
3.3V_DB
R1004
1 2
4.7K (J)
SBADD17 242 M_SBADD17 116:1C;118:1B
SBADD16 208 M_SBADD16 116:1D
SBADD15 206 M_SBADD15 116:1D
SBADD14 204 M_SBADD14 116:1D
SBADD13 203 M_SBADD13 116:1D
SBADD12 202 M_SBADD12 116:1D
SBADD11 201 M_SBADD11 116:1D
SBADD10 200 M_SBADD10 116:1D
SBADD9 198 M_SBADD9 116:1D
SBADD8 210 M_SBADD8 116:1D
SBADD7 211 M_SBADD7 116:1E
SBADD6 212 M_SBADD6 116:1E
SBADD5 214 M_SBADD5 116:1E
SBADD4 216 M_SBADD4 116:1E
SBADD3 217 M_SBADD3 116:1E
SBADD2 218 M_SBADD2 116:1E
SBADD1 219 M_SBADD1 116:1E
NOT MOUNT
SBWE_N 209 M_SBWE 117:3E
SBOE_N 230 M_SBOE 117:3E
R1021
SBCLK 254
1 2
4.7K (J)
GND
SBBE1_N 220 M_SBBE1 117:3E SBADD19と SHARE
SBBE0_N 222 M_SBBE0 117:3D SBADD0と SHARE
SBCE2_N 223 M_SBCE2 117:3D
SBCE1_N 226 M_SBCE1 117:3D
SBCE0_N 228 M_SBCE0 117:3D
TC90408FG (0)

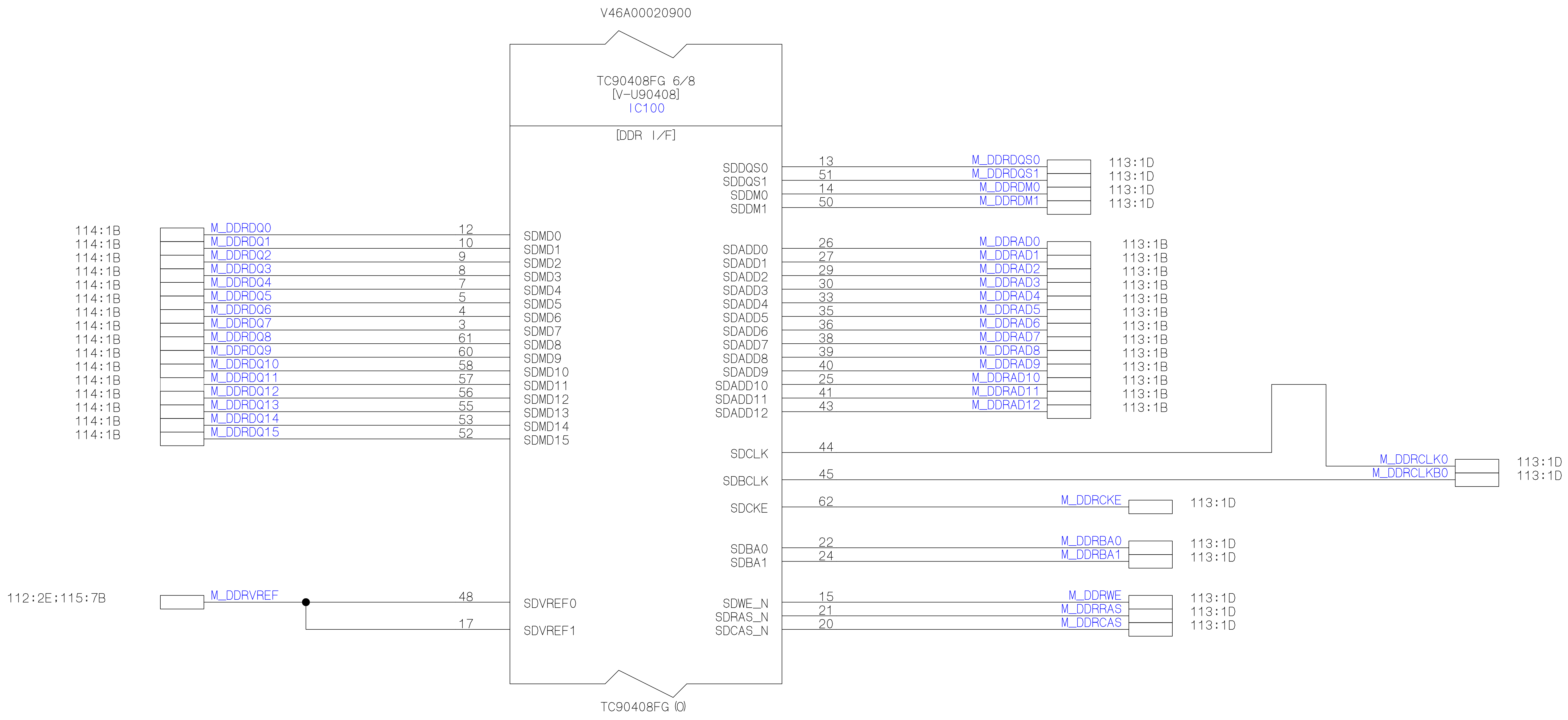
U03AS MAIN [102] Donau SB (PE0492)


V46A00020900
TC90408FG 3/8
[V-U90408]
IC100
[TS I/F]
TC90408FG (O)
700:8E D_TSD7
700:8E D_TSD6
700:8E D_TSD5
700:8E D_TSD4
700:8E D_TSD3
700:8E D_TSD2
700:8E D_TSD1
700:8E D_TSD0
700:8D D_TSVAL
700:8D D_TSSYNC
700:8D D_TSCLK
80 [TSIDATA7]
81 [TSIDATA6]
83 [TSIDATA5]
84 [TSIDATA4]
85 [TSIDATA3]
86 [TSIDATA2]
88 [TSIDATA1]
89 [TSIDATA0]
92 [TSIVALID]
93 [TSISYNC]
91 [TSICLK]
94 [TSIERROR]
[TSODATA7] 69
[TSODATA6] 70
[TSODATA5] 72
[TSODATA4] 73
[TSODATA3] 75
[TSODATA2] 76
[TSODATA1] 77
[TSODATA0] 78
[TSOVALID] 67
[TSOSYNC] 68
[TSOCLK] 65
R1005
4.7K (J)
NOT MOUNT
C1133
C1134
C1135
C1136
C1137
C1138
C1139
C1140
C1141
C1142
C1143
C1122
100pF (J)
C1123
C1124
C1125
C1126
C1127
C1128
C1129
C1130
C1131
C1132
GND
RM150
[RMX4A]
33 (J)
RM151
RM152
[RMX4A]
33 (J)
D_TSDATA7 701:2B
D_TSDATA6 701:2B
D_TSDATA5 701:2B
D_TSDATA4 701:2B
D_TSDATA3 701:2B
D_TSDATA2 701:2B
D_TSDATA1 701:2B
D_TSDATA0 701:2B
D_TSOSYNC 701:2C
D_TSOVAL 701:2C
D_TSOCLK 701:2C

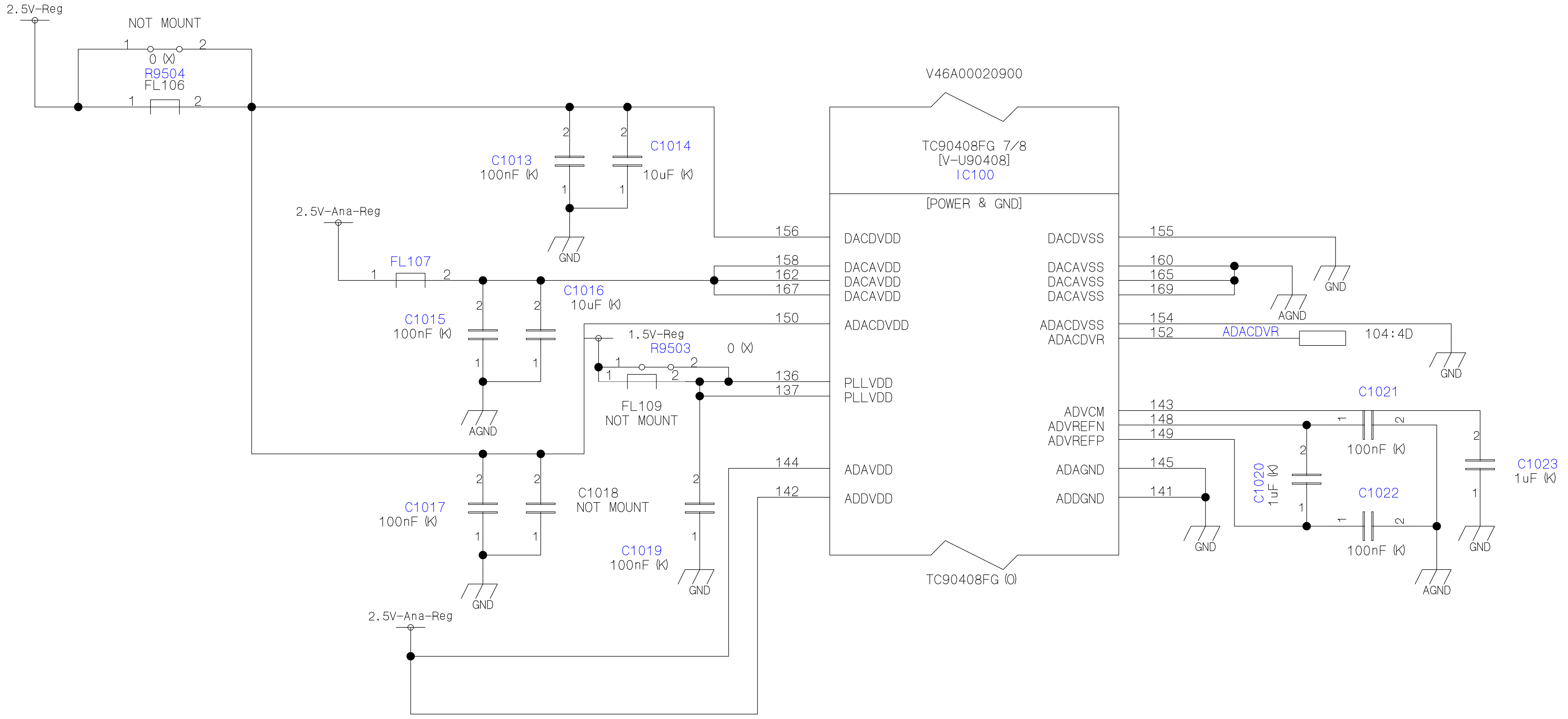
U03AS MAIN [103] TS (PE0492)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
101:2D
M_INTEHT
R1020
0 (X)
M_INT1
2.5V-Ana-Reg
C1002
100nF (K)
R1006
0 (X)
C1003
100nF (K)
AGND
R1007
13K (J)
R1008
12K (J)
C1005
100pF (J)
R1010
10K (J)
R1009
10K (J)
NOT MOUNT
GND
V46A00020900
TC90408FG 4/8
[V-U90408]
IC100
[VIDEO OUT]
PIXCLKIO
HSYNCIO
VSYNCIO
DACVREF
DACVB2
DACVB1
113
114
116
166
163
164
DVOCLK
DVOHS
DVOVS
DVOYS
DVOD0
DVOD1
DVOD2
DVOD3
DVOD4
DVOD5
DVOD6
DVOD7
AOUTP3
AOUTP2
AOUTP1
AOUTP0
111
108
110
112
95
98
100
102
103
104
105
106
157
159
161
168
D_JTAG_TDI
D_JTAG_TDO
111:5B
111:5B
ITU-R656 output
NOT MOUNT
R1011
33 (F)
DB_CLK
208:1A
R1025
4.7K (J)
RM105
47 (J)
[RMX4A]
RM106
47 (J)
DB_D0
DB_D1
DB_D2
DB_D3
DB_D4
DB_D5
DB_D6
DB_D7
208:1B
208:1C
208:1C
208:1C
208:1C
111:5B:208:1C
111:5B:208:1C
111:5B:208:1C
B_CVBS
650:1E
3.3V_DB
RM103
10K (J)
[RMX4A]
C1006
100nF (K)
C1007
100nF (K)
[AUDIO I/F]
ALRCKI
ABITCKI
ASDIO
ASDI1
120
124
126
178
ASDO1
ABITCKO
ALRCKO
AOSCLK
ASDO0
AAUDOR
AAUDOL
177
173
172
174
175
151
153
R1024
4.7K (J)
706:2C
702:3B:702:3D:704:3A
700:3A:701:3A
D_CIVCCEN
D_CICARDEN
D_CITSSW
R1012
1M (J)
R1013
1M (J)
R1014
75 (J)
C1008
22uF (M)
106:6C
ADACDVR
TC90408FG (O)
R1015
4.7K (J)
R1017
4.7K (J)
NOT MOUNT
R1016
4.7K (J)
R1018
4.7K (J)
NOT MOUNT
[FL08B]
RM107
RM108
33 (J)
A_ABCKO
A_ALRCKO
A_ASDO0
600:1F
600:1F
600:1E
A_ASDO1
A_ALRCK1
A_AOSCLK1
A_ABCK1
650:1C
650:1B
650:1C
650:1B
109:1D
VCXO-PWM
FL101
60ohm
FL102
60ohm

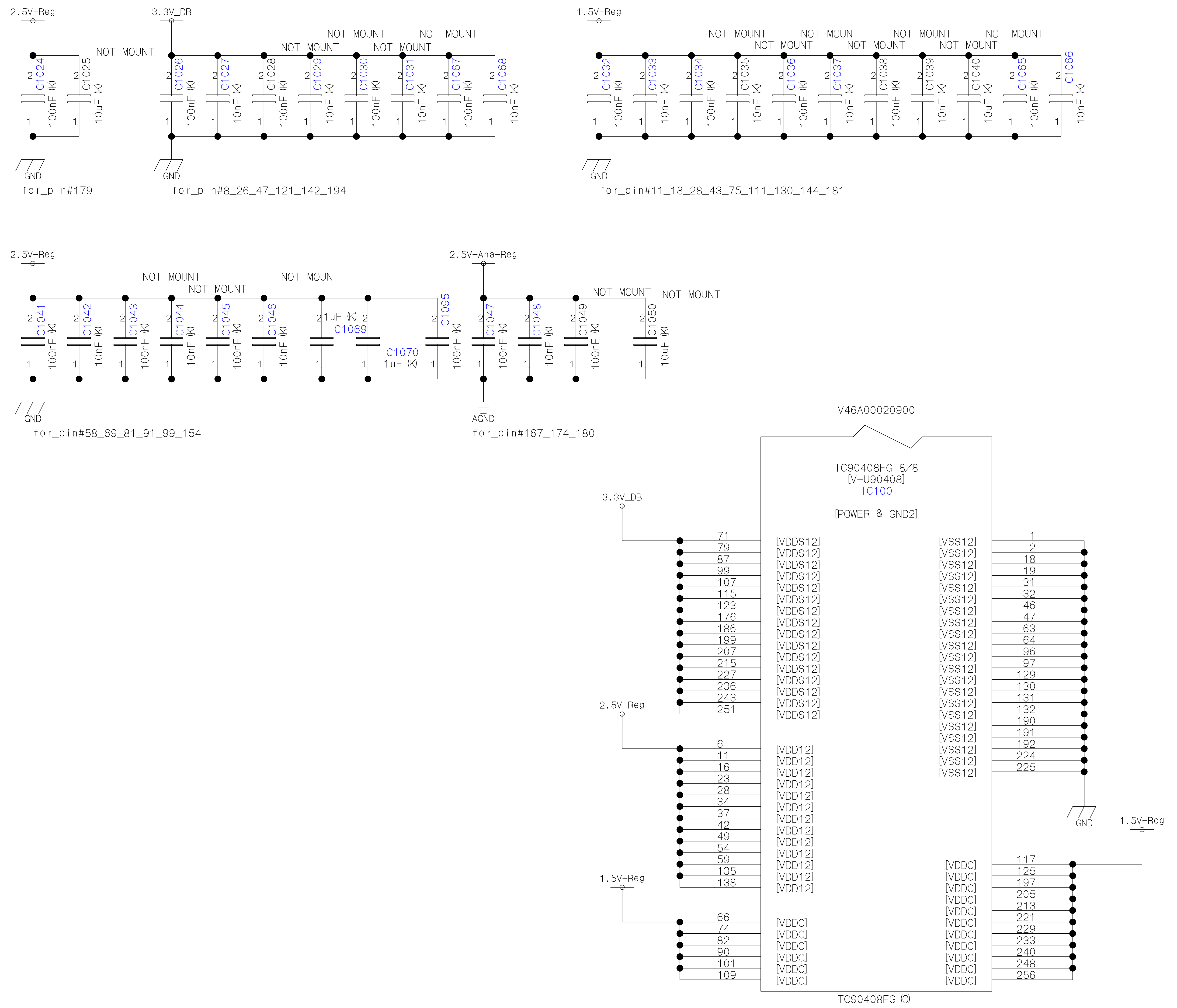
U03AS MAIN [104] AUDIO,VIDEO (PE0492)


V46A00020900
TC90408FG 6/8
[V-U90408]
IC100
[DDR I/F]
114:1B M_DDRDQ0 12 SDMD0
114:1B M_DDRDQ1 10 SDMD1
114:1B M_DDRDQ2 9 SDMD2
114:1B M_DDRDQ3 8 SDMD3
114:1B M_DDRDQ4 7 SDMD4
114:1B M_DDRDQ5 5 SDMD5
114:1B M_DDRDQ6 4 SDMD6
114:1B M_DDRDQ7 3 SDMD7
114:1B M_DDRDQ8 61 SDMD8
114:1B M_DDRDQ9 60 SDMD9
114:1B M_DDRDQ10 58 SDMD10
114:1B M_DDRDQ11 57 SDMD11
114:1B M_DDRDQ12 56 SDMD12
114:1B M_DDRDQ13 55 SDMD13
114:1B M_DDRDQ14 53 SDMD14
114:1B M_DDRDQ15 52 SDMD15
112:2E;115:7B M_DDRVREF 48 SDVREF0
17 SDVREF1
SDDQS0 13 M_DDRDQS0 113:1D
SDDQS1 51 M_DDRDQS1 113:1D
SDDM0 14 M_DDRDM0 113:1D
SDDM1 50 M_DDRDM1 113:1D
SDADD0 26 M_DDRAD0 113:1B
SDADD1 27 M_DDRAD1 113:1B
SDADD2 29 M_DDRAD2 113:1B
SDADD3 30 M_DDRAD3 113:1B
SDADD4 33 M_DDRAD4 113:1B
SDADD5 35 M_DDRAD5 113:1B
SDADD6 36 M_DDRAD6 113:1B
SDADD7 38 M_DDRAD7 113:1B
SDADD8 39 M_DDRAD8 113:1B
SDADD9 40 M_DDRAD9 113:1B
SDADD10 25 M_DDRAD10 113:1B
SDADD11 41 M_DDRAD11 113:1B
SDADD12 43 M_DDRAD12 113:1B
SDCLK 44 M_DDRCLK0 113:1D
SDBCLK 45 M_DDRCLKB0 113:1D
SDCKE 62 M_DDRCKE 113:1D
SDBA0 22 M_DDRBA0 113:1D
SDBA1 24 M_DDRBA1 113:1D
SDWE_N 15 M_DDRWE 113:1D
SDRAS_N 21 M_DDRRAS 113:1D
SDCAS_N 20 M_DDRCAS 113:1D
TC90408FG (0)

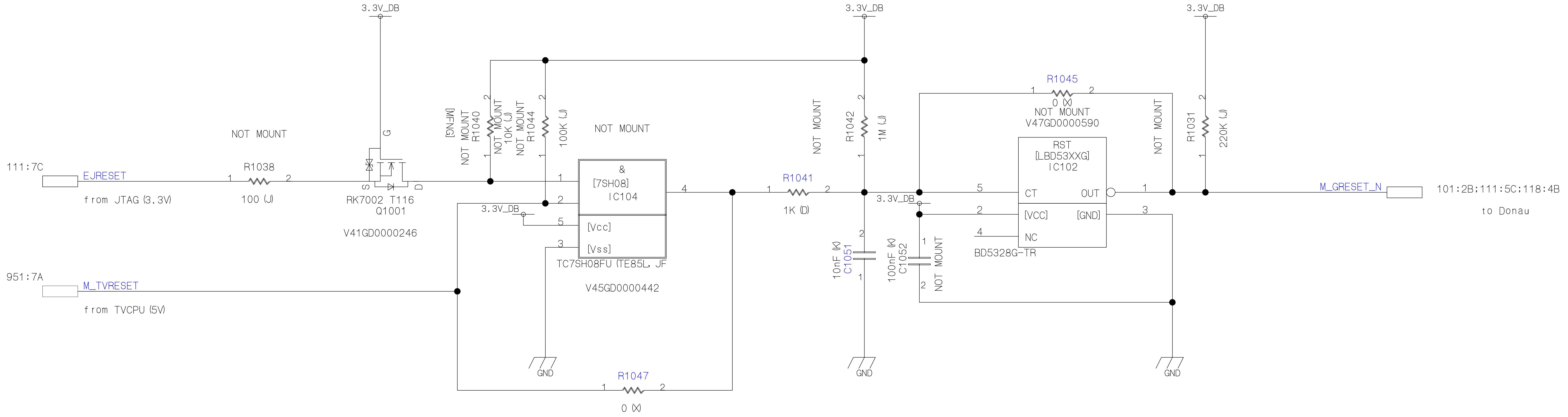
U03AS MAIN [105] DDRSDRAM I/F (PE0492)


2.5V-Reg
NOT MOUNT
0 (K)
R9504
FL106
V46A00020900
TC90408FG 7/8
[V-U90408]
IC100
[POWER & GND]
C1013
100nF (K)
C1014
10uF (K)
GND
2.5V-Ana-Reg
FL107
C1016
10uF (K)
C1015
100nF (K)
AGND
1.5V-Reg
R9503
0 (K)
FL109
NOT MOUNT
C1017
100nF (K)
C1018
NOT MOUNT
C1019
100nF (K)
156
158
162
167
150
136
137
144
142
DACDVDD
DACAVDD
DACAVDD
DACAVDD
ADACDVDD
PLLVDD
PLLVDD
ADAVDD
ADDVDD
DACDVSS
DACAVSS
DACAVSS
DACAVSS
ADACDVSS
ADACDVR
ADVCM
ADVREFN
ADVREFP
ADAGND
ADDGND
155
160
165
169
154
152
143
148
149
145
141
ADACDVR
104:4D
C1021
100nF (K)
C1020
1uF (K)
C1022
100nF (K)
C1023
1uF (K)
TC90408FG (O)

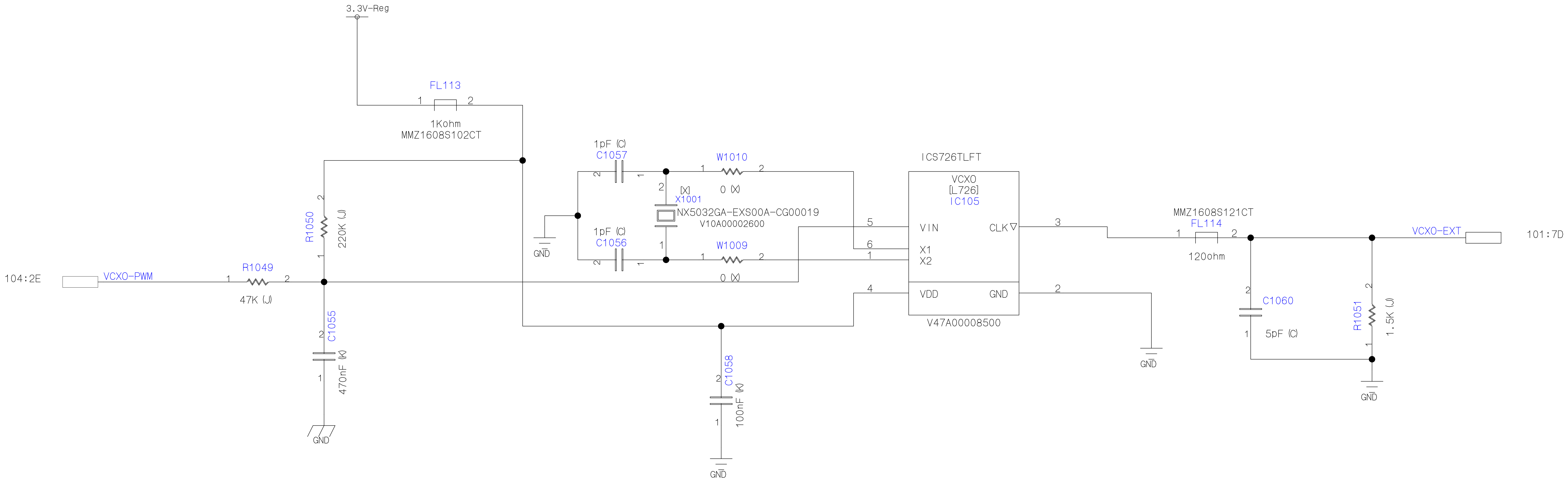
U03AS MAIN [106] Donau PWR1 (PE0492)


2.5V-Reg
C1024 100nF (K)
C1025 10uF (K)
NOT MOUNT
GND
for_pin#179
3.3V_DB
C1026 100nF (K)
C1027 10nF (K)
C1028 100nF (K)
C1029 10nF (K)
C1030 100nF (K)
C1031 10nF (K)
C1067 100nF (K)
C1068 10nF (K)
NOT MOUNT
for_pin#8_26_47_121_142_194
1.5V-Reg
C1032 100nF (K)
C1033 10nF (K)
C1034 100nF (K)
C1035 10nF (K)
C1036 100nF (K)
C1037 10nF (K)
C1038 100nF (K)
C1039 10nF (K)
C1040 10uF (K)
C1065 100nF (K)
C1066 10nF (K)
NOT MOUNT
for_pin#11_18_28_43_75_111_130_144_181
2.5V-Reg
C1041 100nF (K)
C1042 10nF (K)
C1043 100nF (K)
C1044 10nF (K)
C1045 100nF (K)
C1046 10nF (K)
C1069 1uF (K)
C1070 1uF (K)
C1095 100nF (K)
NOT MOUNT
for_pin#58_69_81_91_99_154
2.5V-Ana-Reg
C1047 100nF (K)
C1048 10nF (K)
C1049 100nF (K)
C1050 10uF (K)
NOT MOUNT
AGND
for_pin#167_174_180
V46A00020900
TC90408FG 8/8
[V-U90408]
IC100
[POWER & GND2]
3.3V_DB
[VDDS12] 71 79 87 99 107 115 123 176 186 199 207 215 227 236 243 251
2.5V-Reg
[VDD12] 6 11 16 23 28 34 37 42 49 54 59 135 138
1.5V-Reg
[VDDC] 66 74 82 90 101 109
[VSS12] 1 2 18 19 31 32 46 47 63 64 96 97 129 130 131 132 190 191 192 224 225
GND
1.5V-Reg
[VDDC] 117 125 197 205 213 221 229 233 240 248 256
TC90408FG (O)

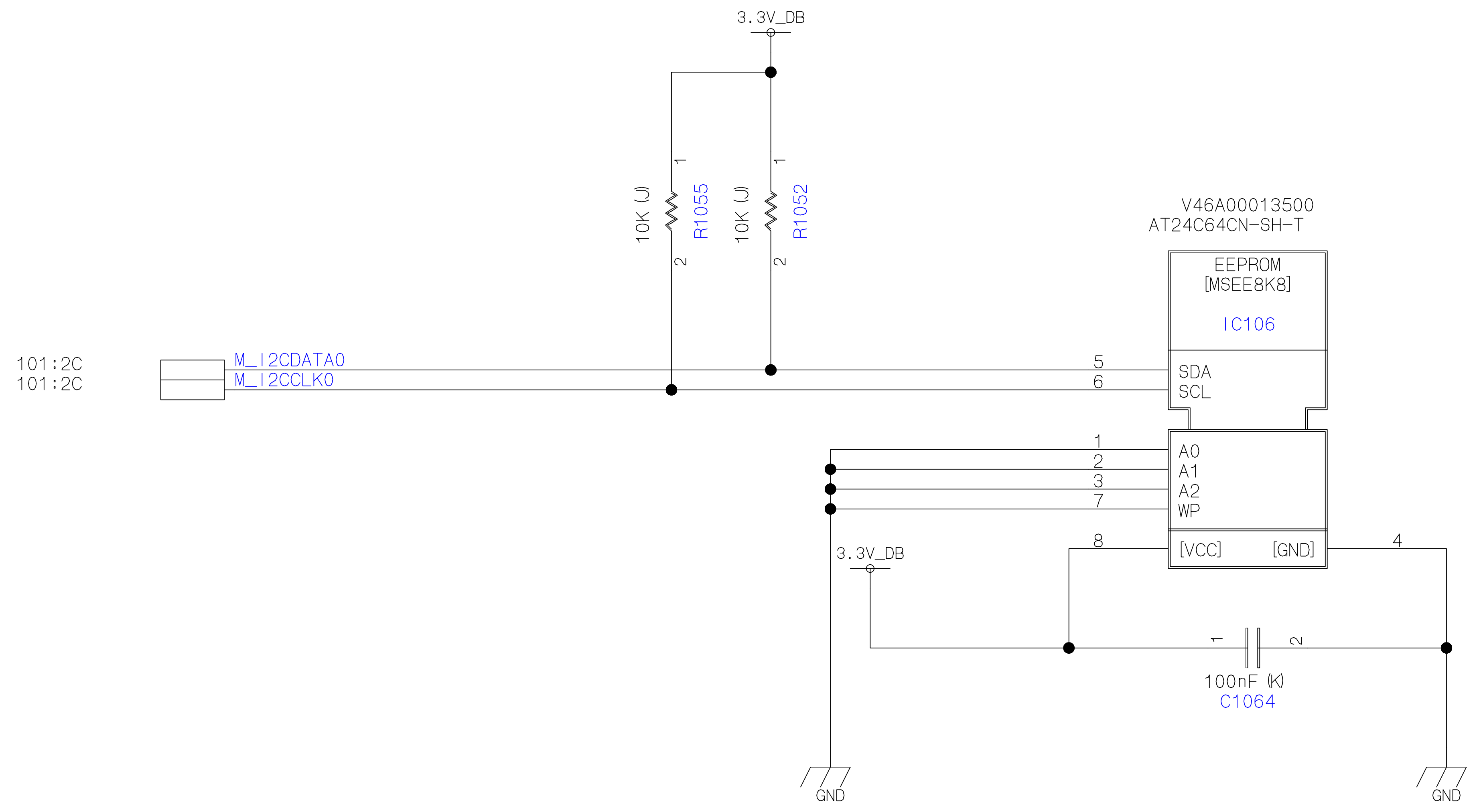
U03AS MAIN [107] Donau PATHCON (PE0492)


3.3V_DB
3.3V_DB
3.3V_DB
NOT MOUNT
R1038
1
2
100 (J)
111:7C
EJRESET
from JTAG (3.3V)
G
S
D
RK7002 T116
Q1001
V41GD0000246
[MFNG]
NOT MOUNT
R1040
NOT MOUNT
10K (J)
NOT MOUNT
R1044
100K (J)
NOT MOUNT
&
[7SH08]
IC104
1
2
5
3
4
[Vcc]
[Vss]
3.3V_DB
TC7SH08FU (TE85L, JF
V45GD0000442
951:7A
M_TVRESET
from TVCPU (5V)
GND
R1047
1
2
0 (X)
R1041
1
2
1K (D)
NOT MOUNT
R1042
1M (J)
10nF (K)
C1051
100nF (K)
C1052
NOT MOUNT
3.3V_DB
GND
R1045
0 (X)
NOT MOUNT
V47GD0000590
RST
[LBD53XXG]
IC102
CT
OUT
[VCC]
[GND]
NC
5
2
4
1
3
BD5328G-TR
NOT MOUNT
R1031
220K (J)
GND
M_GRESET_N
101:2B:111:5C:118:4B
to Donau

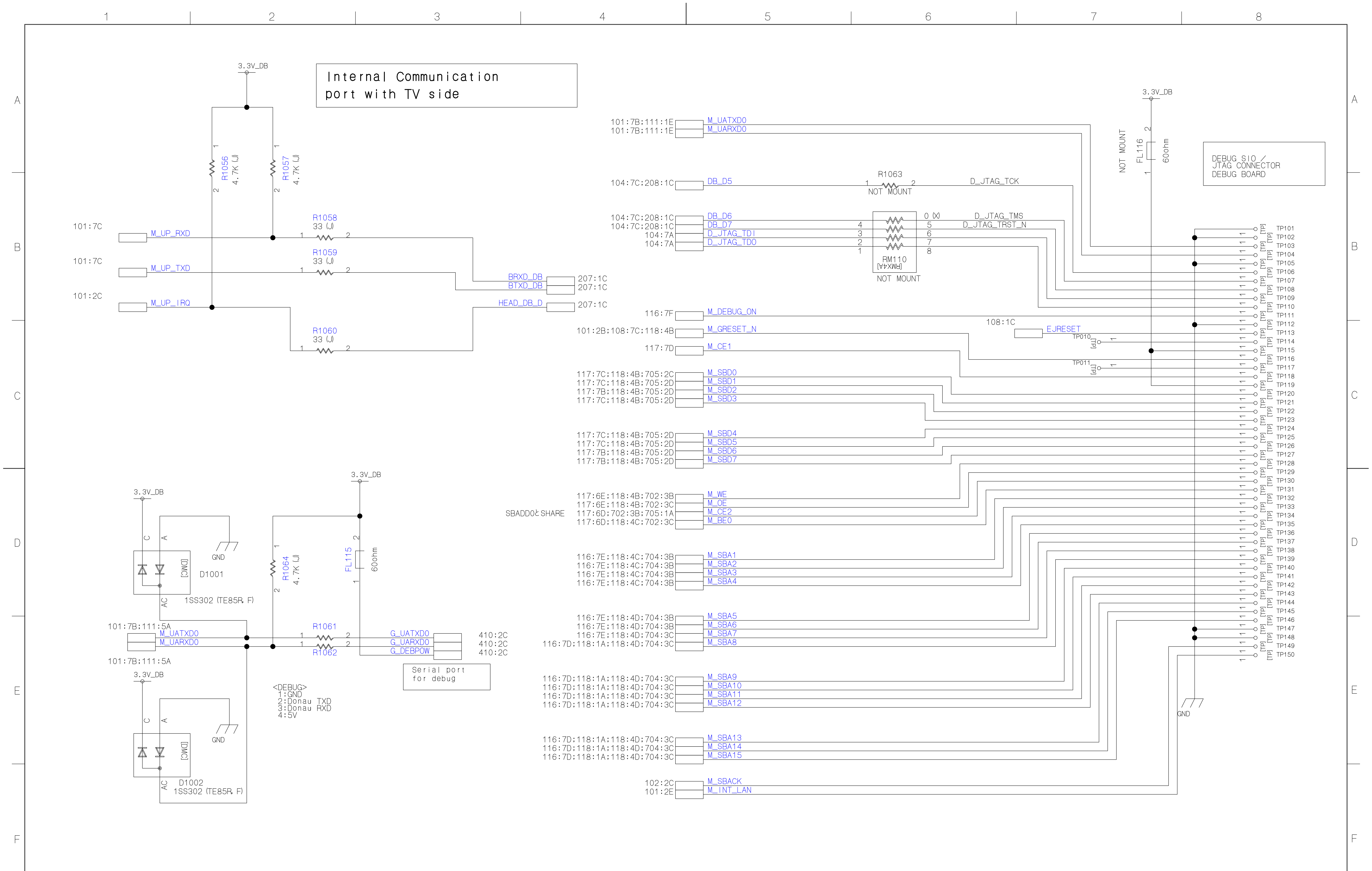
U03AS MAIN [108] RST/CLK (PE0492)


3.3V-Reg
FL113
1Kohm
MMZ1608S102CT
1pF (C)
C1057
W1010
0 (X)
ICS726TLFT
VCXO
[L726]
IC105
VIN
CLK
X1
X2
VDD
GND
V47A00008500
[X]
X1001
NX5032GA-EXS00A-CG00019
V10A00002600
1pF (C)
C1056
W1009
0 (X)
GND
R1050
220K (J)
104:2E
VCXO-PWM
R1049
47K (J)
C1055
470nF (K)
GND
C1058
100nF (K)
GND
GND
MMZ1608S121CT
FL114
120ohm
C1060
5pF (C)
R1051
1.5K (J)
GND
VCXO-EXT
101:7D

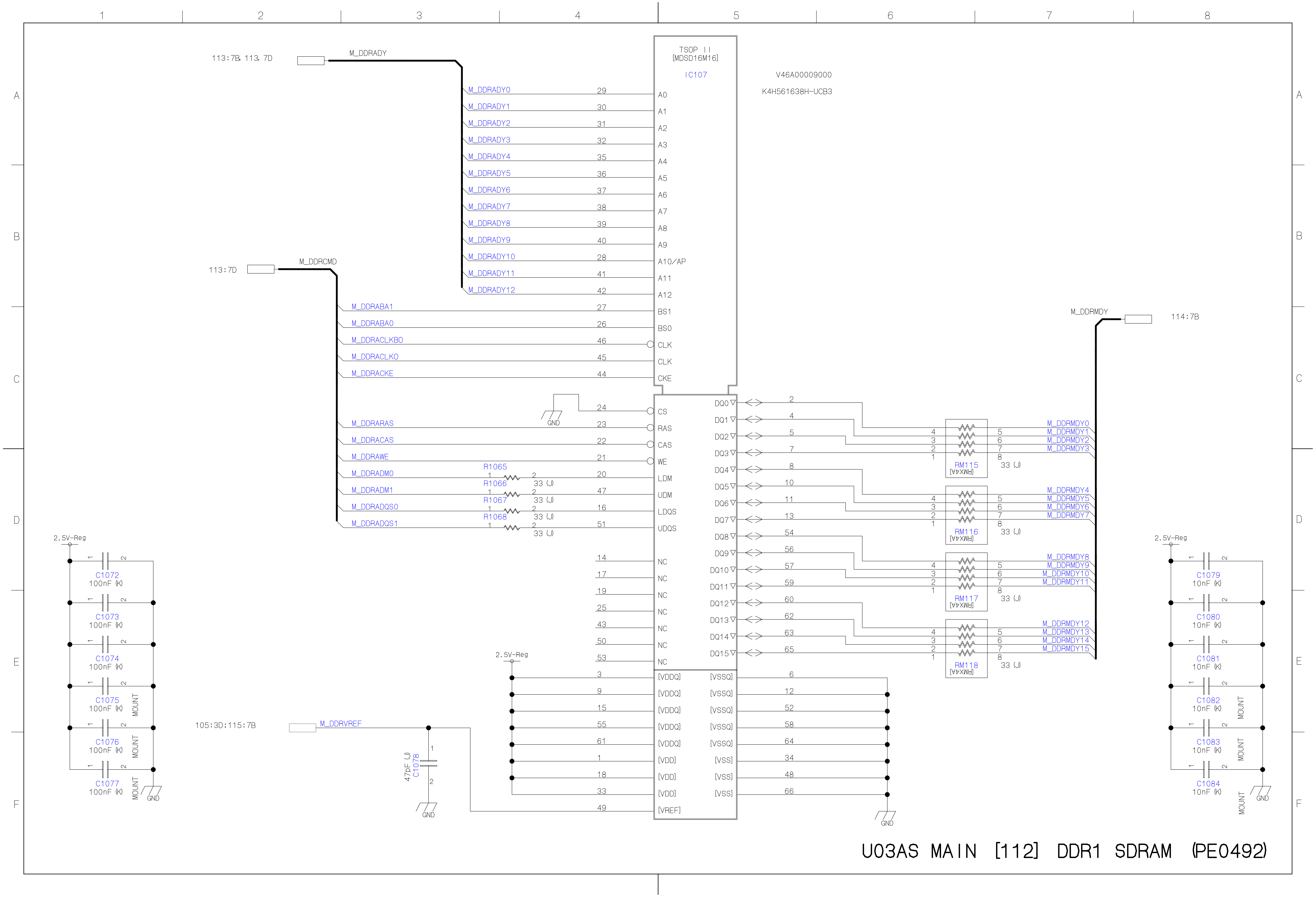
U03AS MAIN [109] VCXO (PE0492)


3.3V_DB
10K (J)
R1055
10K (J)
R1052
1
2
V46A00013500
AT24C64CN-SH-T
EEPROM
[MSEE8K8]
IC106
101:2C
101:2C
M_I2CDATA0
M_I2CCLK0
5
6
SDA
SCL
1
2
3
7
A0
A1
A2
WP
8
[VCC]
[GND]
4
3.3V_DB
100nF (K)
C1064
GND
GND

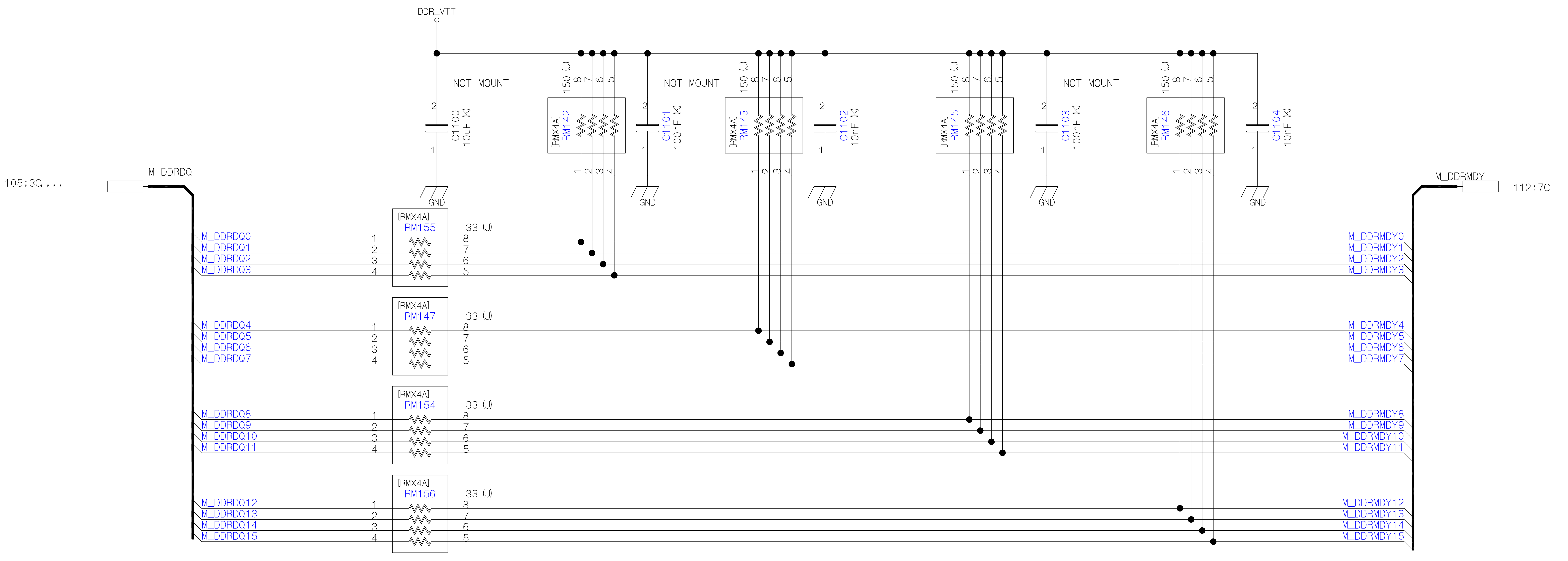
U03AS MAIN [110] E2PROM (PE0492)


Internal Communication
port with TV side
3.3V_DB
R1056 4.7K (J)
R1057 4.7K (J)
R1058 33 (J)
R1059 33 (J)
R1060 33 (J)
101:7C M_UP_RXD
101:7C M_UP_TXD
101:2C M_UP_IRQ
BRXD_DB 207:1C
BTXD_DB 207:1C
HEAD_DB_D 207:1C
101:7B:111:1E M_UATXD0
101:7B:111:1E M_UARXD0
104:7C:208:1C DB_D5
R1063 NOT MOUNT
D_JTAG_TCK
104:7C:208:1C DB_D6
104:7C:208:1C DB_D7
104:7A D_JTAG_TDI
104:7A D_JTAG_TDO
D_JTAG_TMS
D_JTAG_TRST_N
RM110 [RMX4A] NOT MOUNT
NOT MOUNT
FL116 60ohm
DEBUG SIO /
JTAG CONNECTOR
DEBUG BOARD
116:7F M_DEBUG_ON
101:2B:108:7C:118:4B M_GRESET_N
108:1C EJRESET
TP010
TP011
117:7D M_CE1
117:7C:118:4B:705:2C M_SBD0
117:7C:118:4B:705:2D M_SBD1
117:7B:118:4B:705:2D M_SBD2
117:7C:118:4B:705:2D M_SBD3
117:7C:118:4B:705:2D M_SBD4
117:7C:118:4B:705:2D M_SBD5
117:7B:118:4B:705:2D M_SBD6
117:7B:118:4B:705:2D M_SBD7
SBADD0と SHARE
117:6E:118:4B:702:3B M_WE
117:6E:118:4B:702:3C M_OE
117:6D:702:3B:705:1A M_CE2
117:6D:118:4C:702:3C M_BE0
116:7E:118:4C:704:3B M_SBA1
116:7E:118:4C:704:3B M_SBA2
116:7E:118:4C:704:3B M_SBA3
116:7E:118:4C:704:3B M_SBA4
116:7E:118:4D:704:3B M_SBA5
116:7E:118:4D:704:3B M_SBA6
116:7E:118:4D:704:3C M_SBA7
116:7D:118:1A:118:4D:704:3C M_SBA8
116:7D:118:1A:118:4D:704:3C M_SBA9
116:7D:118:1A:118:4D:704:3C M_SBA10
116:7D:118:1A:118:4D:704:3C M_SBA11
116:7D:118:1A:118:4D:704:3C M_SBA12
116:7D:118:1A:118:4D:704:3C M_SBA13
116:7D:118:1A:118:4D:704:3C M_SBA14
116:7D:118:1A:118:4D:704:3C M_SBA15
102:2C M_SBACK
101:2E M_INT_LAN
TP101 … TP150
GND
D1001 1SS302 (TE85R, F)
D1002 1SS302 (TE85R, F)
[DMC]
R1064 4.7K (J)
FL115 60ohm
101:7B:111:5A M_UATXD0
101:7B:111:5A M_UARXD0
R1061
R1062
G_UATXD0 410:2C
G_UARXD0 410:2C
G_DEBPOW 410:2C
Serial port
for debug
<DEBUG>
1:GND
2:Donau TXD
3:Donau RXD
4:5V

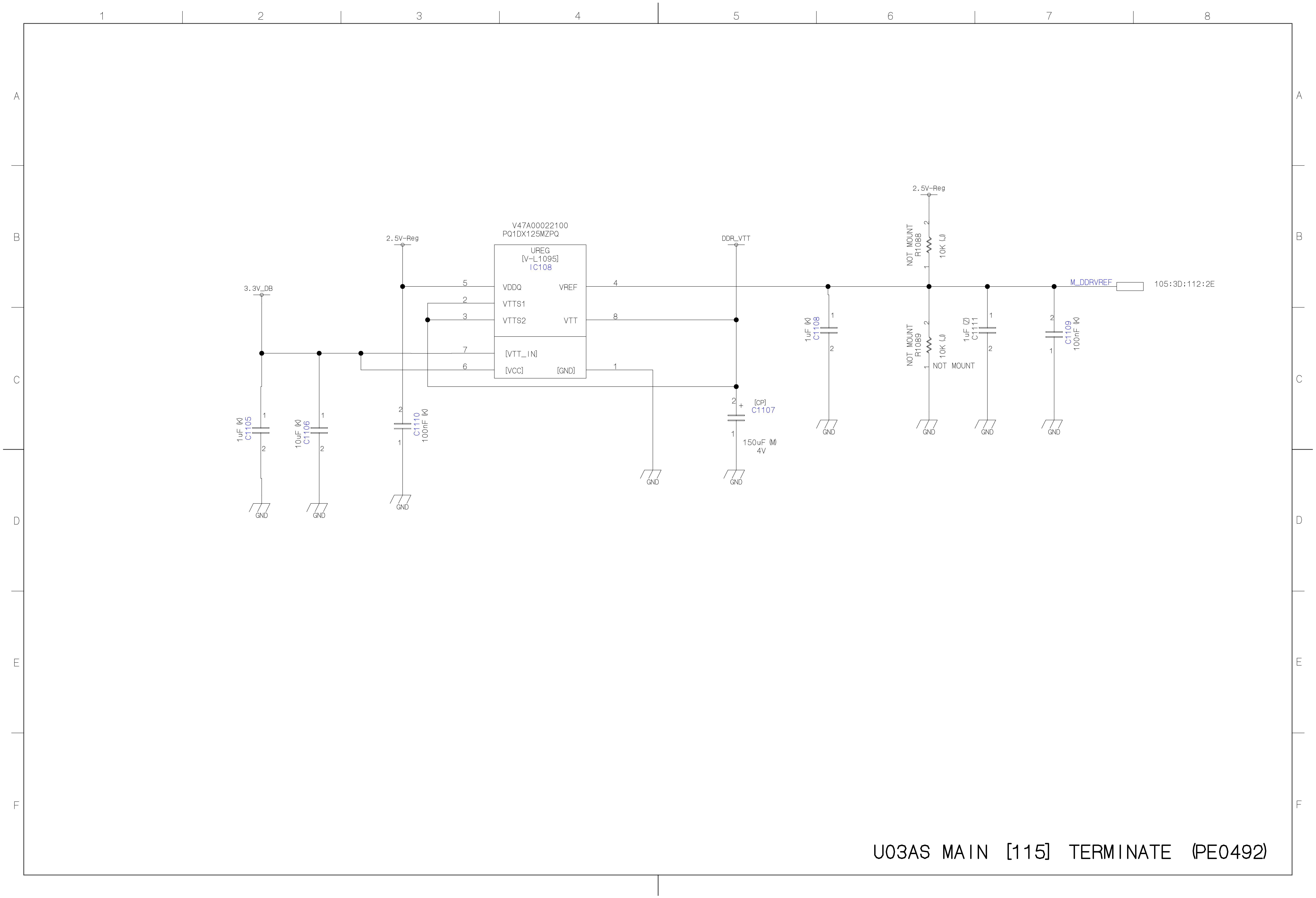
U03AS MAIN [111] SERIAL/EJTAG (PE0492)


TSOP II
[MDSD16M16]
IC107
V46A00009000
K4H561638H-UCB3
113:7B, 113, 7D
M_DDRADY
M_DDRADY0 29 A0
M_DDRADY1 30 A1
M_DDRADY2 31 A2
M_DDRADY3 32 A3
M_DDRADY4 35 A4
M_DDRADY5 36 A5
M_DDRADY6 37 A6
M_DDRADY7 38 A7
M_DDRADY8 39 A8
M_DDRADY9 40 A9
M_DDRADY10 28 A10/AP
M_DDRADY11 41 A11
M_DDRADY12 42 A12
113:7D
M_DDRCMD
M_DDRABA1 27 BS1
M_DDRABA0 26 BS0
M_DDRACLKB0 46 CLK
M_DDRACLK0 45 CLK
M_DDRACKE 44 CKE
GND 24 CS
M_DDRARAS 23 RAS
M_DDRACAS 22 CAS
M_DDRAWE 21 WE
M_DDRADM0 R1065 1 2 33 (J) 20 LDM
M_DDRADM1 R1066 1 2 33 (J) 47 UDM
M_DDRADQS0 R1067 1 2 33 (J) 16 LDQS
M_DDRADQS1 R1068 1 2 33 (J) 51 UDQS
14 NC
17 NC
19 NC
25 NC
43 NC
50 NC
53 NC
2.5V-Reg
3 [VDDQ]
9 [VDDQ]
15 [VDDQ]
55 [VDDQ]
61 [VDDQ]
1 [VDD]
18 [VDD]
33 [VDD]
49 [VREF]
[VSSQ] 6
[VSSQ] 12
[VSSQ] 52
[VSSQ] 58
[VSSQ] 64
[VSS] 34
[VSS] 48
[VSS] 66
GND
105:3D:115:7B
M_DDRVREF
C1078 47pF (J)
DQ0 2
DQ1 4
DQ2 5
DQ3 7
DQ4 8
DQ5 10
DQ6 11
DQ7 13
DQ8 54
DQ9 56
DQ10 57
DQ11 59
DQ12 60
DQ13 62
DQ14 63
DQ15 65
RM115 [RMX4A] 33 (J)
RM116 [RMX4A] 33 (J)
RM117 [RMX4A] 33 (J)
RM118 [RMX4A] 33 (J)
M_DDRMDY0
M_DDRMDY1
M_DDRMDY2
M_DDRMDY3
M_DDRMDY4
M_DDRMDY5
M_DDRMDY6
M_DDRMDY7
M_DDRMDY8
M_DDRMDY9
M_DDRMDY10
M_DDRMDY11
M_DDRMDY12
M_DDRMDY13
M_DDRMDY14
M_DDRMDY15
M_DDRMDY
114:7B
C1072 100nF (K)
C1073 100nF (K)
C1074 100nF (K)
C1075 100nF (K)
C1076 100nF (K)
C1077 100nF (K)
MOUNT
C1079 10nF (K)
C1080 10nF (K)
C1081 10nF (K)
C1082 10nF (K)
C1083 10nF (K)
C1084 10nF (K)
1 2 3 4 5 6 7 8
A B C D E F

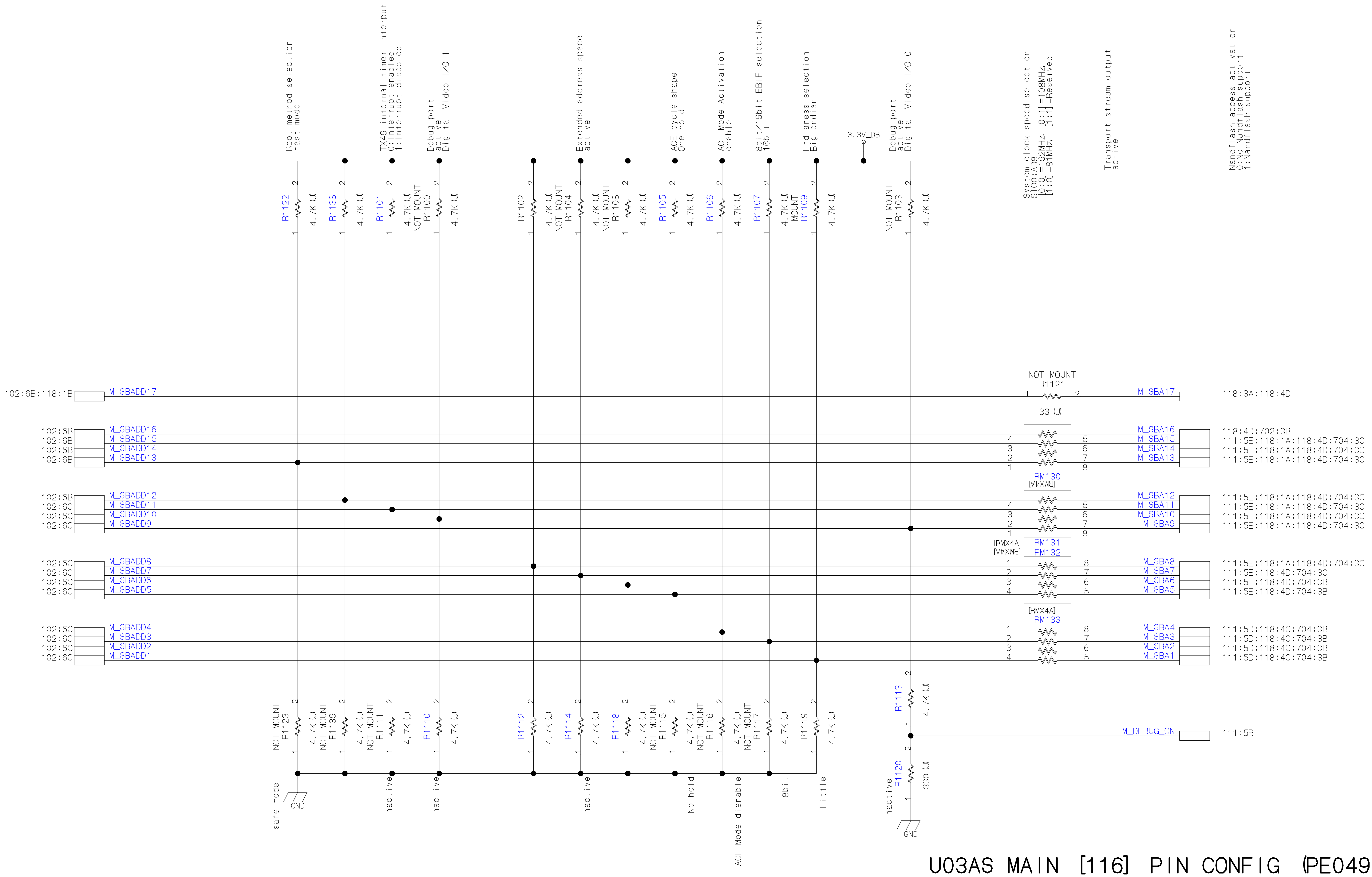
U03AS MAIN [112] DDR1 SDRAM (PE0492)


DDR_VTT
NOT MOUNT
C1100
10uF (K)
GND
150 (J)
RM142
[RMX4A]
C1101
100nF (K)
RM143
C1102
10nF (K)
RM145
C1103
100nF (K)
RM146
C1104
10nF (K)
105:3C...
M_DDRDQ
M_DDRMDY
112:7C
RM155
RM147
RM154
RM156
33 (J)
M_DDRDQ0
M_DDRDQ1
M_DDRDQ2
M_DDRDQ3
M_DDRDQ4
M_DDRDQ5
M_DDRDQ6
M_DDRDQ7
M_DDRDQ8
M_DDRDQ9
M_DDRDQ10
M_DDRDQ11
M_DDRDQ12
M_DDRDQ13
M_DDRDQ14
M_DDRDQ15
M_DDRMDY0
M_DDRMDY1
M_DDRMDY2
M_DDRMDY3
M_DDRMDY4
M_DDRMDY5
M_DDRMDY6
M_DDRMDY7
M_DDRMDY8
M_DDRMDY9
M_DDRMDY10
M_DDRMDY11
M_DDRMDY12
M_DDRMDY13
M_DDRMDY14
M_DDRMDY15

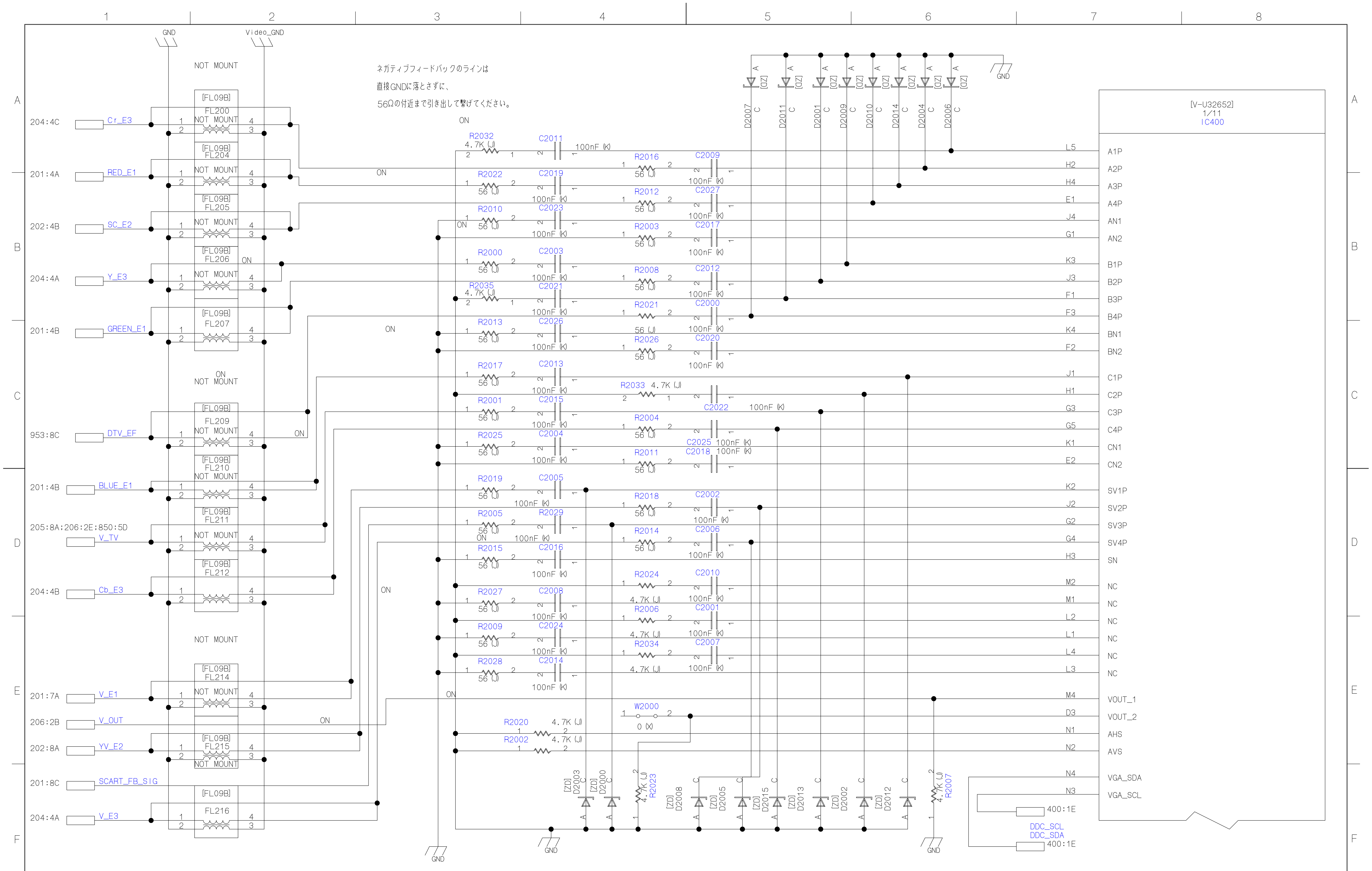
U03AS MAIN [114] TERMINATE (PE0492)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
V47A00022100
PQ1DX125MZPQ
UREG
[V-L1095]
IC108
VDDQ
VTTS1
VTTS2
[VTT_IN]
[VCC]
VREF
VTT
[GND]
5
2
3
7
6
4
8
1
2.5V-Reg
3.3V_DB
DDR_VTT
1uF (K)
C1105
10uF (K)
C1106
C1110
100nF (K)
[CP]
C1107
150uF (M)
4V
1uF (K)
C1108
NOT MOUNT
R1088
10K (J)
NOT MOUNT
R1089
10K (J)
NOT MOUNT
1uF (Z)
C1111
C1109
100nF (K)
M_DDRVREF
105:3D:112:2E
GND

U03AS MAIN [115] TERMINATE (PE0492)

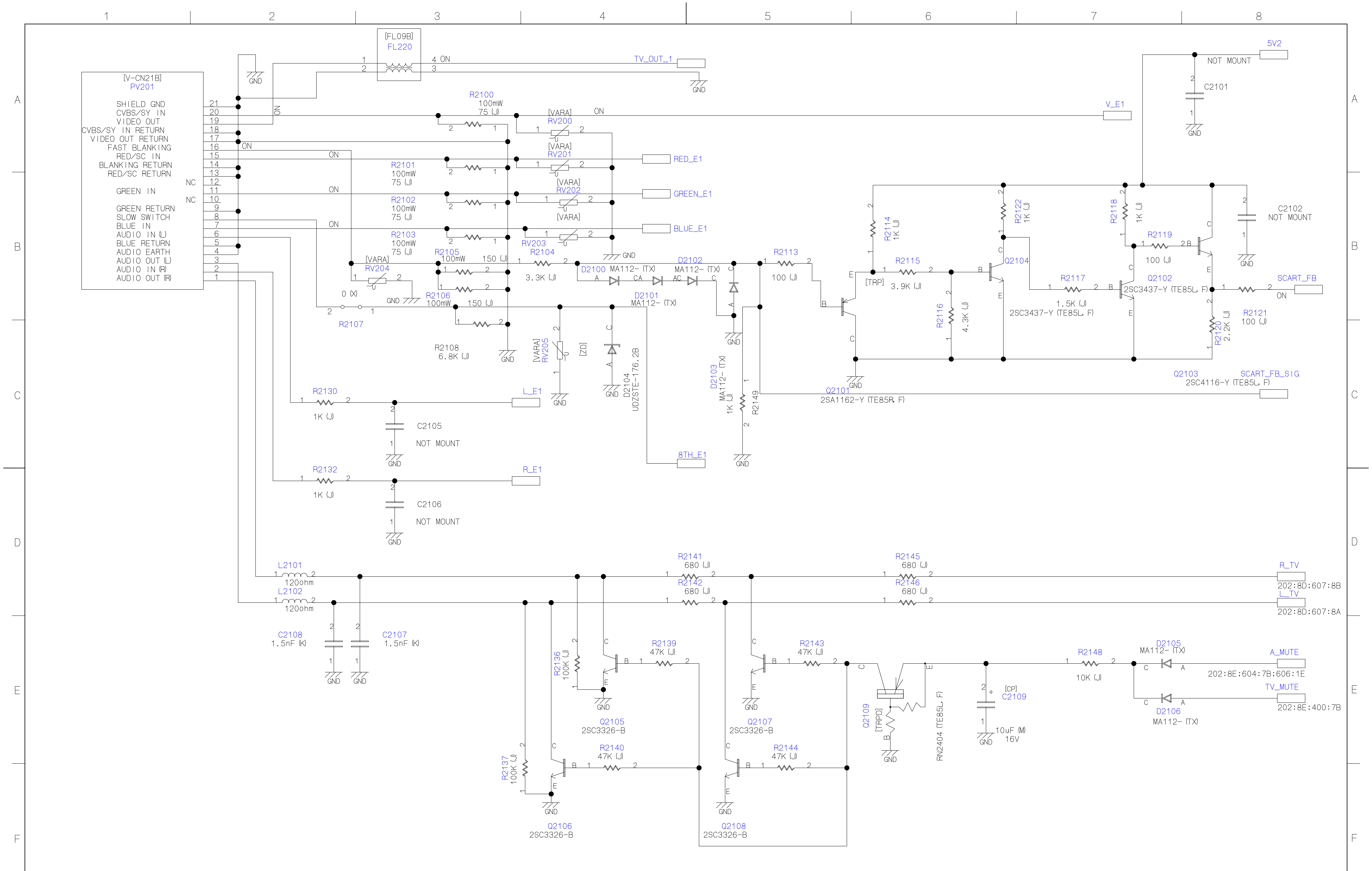

Boot method selection
fast mode
TX49 internal timer interput
0:Interrupt enabled
1:Interrupt disebled
Debug port
active
Digital Video I/O 1
Extended address space
active
ACE cycle shape
One hold
ACE Mode Activation
enable
8bit/16bit EBIF selection
16bit
Endianess selection
Big endian
3.3V_DB
Debug port
active
Digital Video I/O 0
System clock speed selection
SI00:AD8
[0:0]=162MHz, [0:1]=108MHz,
[1:0]=81MHz, [1:1]=Reserved
Transport stream output
active
Nandflash access activation
0:No Nandflash support
1:Nandflash support
R1122 4.7K (J)
R1138 4.7K (J)
R1101 4.7K (J)
NOT MOUNT R1100 4.7K (J)
R1102 4.7K (J)
NOT MOUNT R1104 4.7K (J)
NOT MOUNT R1108 4.7K (J)
R1105 4.7K (J)
R1106 4.7K (J)
R1107 4.7K (J)
MOUNT R1109 4.7K (J)
NOT MOUNT R1103 4.7K (J)
102:6B;118:1B M_SBADD17
NOT MOUNT R1121 33 (J)
M_SBA17 118:3A;118:4D
102:6B M_SBADD16
102:6B M_SBADD15
102:6B M_SBADD14
102:6B M_SBADD13
RM130 [RMX4A]
M_SBA16 118:4D;702:3B
M_SBA15 111:5E;118:1A;118:4D;704:3C
M_SBA14 111:5E;118:1A;118:4D;704:3C
M_SBA13 111:5E;118:1A;118:4D;704:3C
102:6B M_SBADD12
102:6C M_SBADD11
102:6C M_SBADD10
102:6C M_SBADD9
RM131 [RMX4A]
M_SBA12 111:5E;118:1A;118:4D;704:3C
M_SBA11 111:5E;118:1A;118:4D;704:3C
M_SBA10 111:5E;118:1A;118:4D;704:3C
M_SBA9 111:5E;118:1A;118:4D;704:3C
102:6C M_SBADD8
102:6C M_SBADD7
102:6C M_SBADD6
102:6C M_SBADD5
RM132 [RMX4A]
M_SBA8 111:5E;118:1A;118:4D;704:3C
M_SBA7 111:5E;118:4D;704:3C
M_SBA6 111:5E;118:4D;704:3B
M_SBA5 111:5E;118:4D;704:3B
102:6C M_SBADD4
102:6C M_SBADD3
102:6C M_SBADD2
102:6C M_SBADD1
RM133 [RMX4A]
M_SBA4 111:5D;118:4C;704:3B
M_SBA3 111:5D;118:4C;704:3B
M_SBA2 111:5D;118:4C;704:3B
M_SBA1 111:5D;118:4C;704:3B
R1113 4.7K (J)
M_DEBUG_ON 111:5B
R1120 330 (J)
Inactive
GND
NOT MOUNT R1123
4.7K (J) NOT MOUNT R1139
4.7K (J) NOT MOUNT R1111
4.7K (J)
R1110 4.7K (J)
R1112 4.7K (J)
R1114 4.7K (J)
R1118 4.7K (J)
NOT MOUNT R1115 4.7K (J)
NOT MOUNT R1116 4.7K (J)
NOT MOUNT R1117 4.7K (J)
R1119 4.7K (J)
safe mode
GND
Inactive
Inactive
Inactive
No hold
ACE Mode dienable
8bit
Little

U03AS MAIN [116] PIN CONFIG (PE0492)

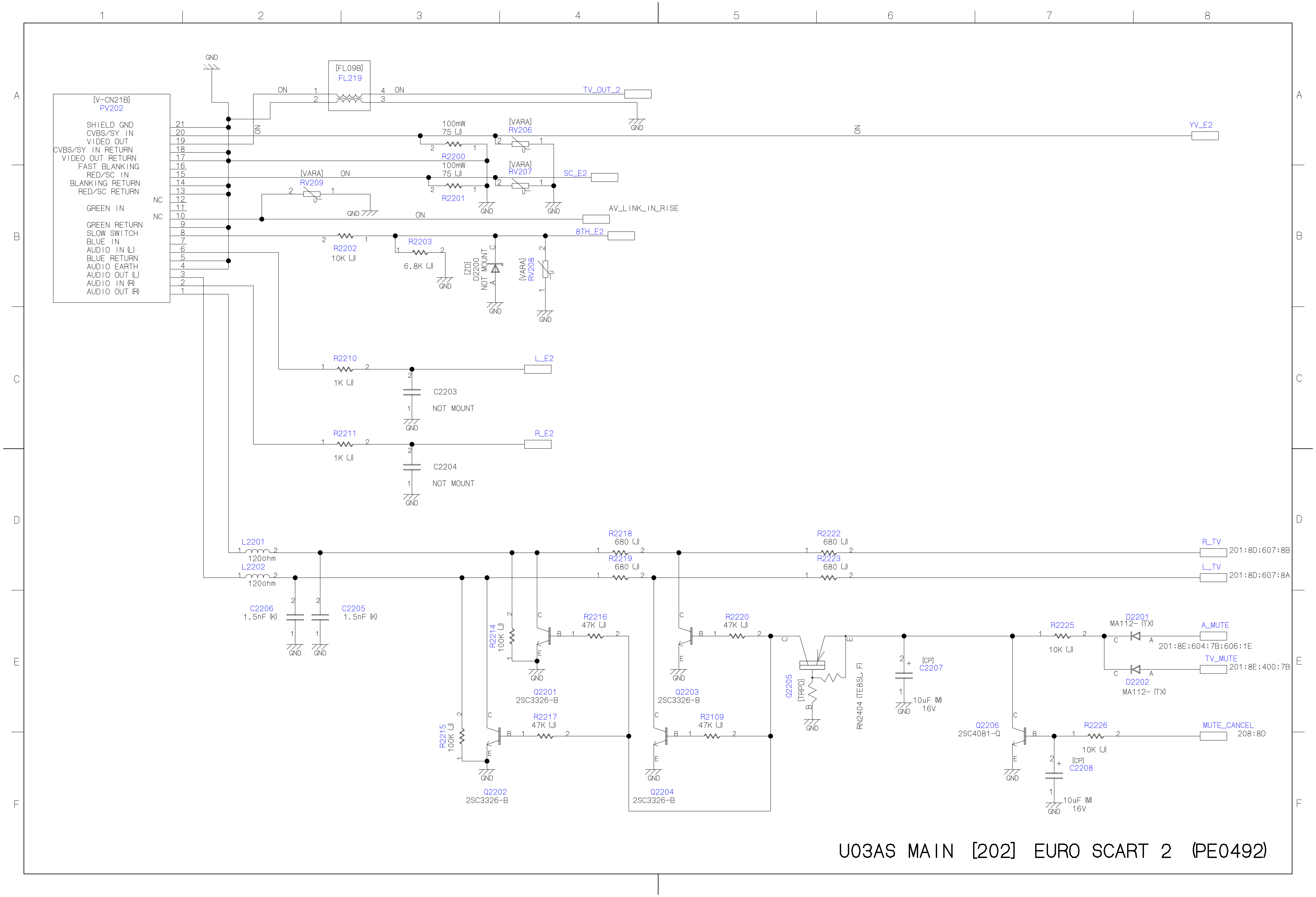

GND
Video_GND
NOT MOUNT
[FL09B]
FL200
FL204
FL205
FL206
FL207
FL209
FL210
FL211
FL212
FL214
FL215
FL216
204:4C Cr_E3
201:4A RED_E1
202:4B SC_E2
204:4A Y_E3
201:4B GREEN_E1
953:8C DTV_EF
201:4B BLUE_E1
205:8A:206:2E:850:5D V_TV
204:4B Cb_E3
201:7A V_E1
206:2B V_OUT
202:8A YV_E2
201:8C SCART_FB_SIG
204:4A V_E3
ON
R2032 4.7K (J)
C2011 100nF (K)
R2016 56 (J)
C2009 100nF (K)
R2022 56 (J)
C2019 100nF (K)
R2012 56 (J)
C2027 100nF (K)
R2010 56 (J)
C2023 100nF (K)
R2003 56 (J)
C2017 100nF (K)
R2000 56 (J)
C2003 100nF (K)
R2008 56 (J)
C2012 100nF (K)
R2035 4.7K (J)
C2021 100nF (K)
R2021 56 (J)
C2000 100nF (K)
R2013 56 (J)
C2026 100nF (K)
R2026 56 (J)
C2020 100nF (K)
R2017 56 (J)
C2013 100nF (K)
R2033 4.7K (J)
C2022 100nF (K)
R2001 56 (J)
C2015 100nF (K)
R2004 56 (J)
C2025 100nF (K)
R2025 56 (J)
C2004 100nF (K)
R2011 56 (J)
C2018 100nF (K)
R2019 56 (J)
C2005 100nF (K)
R2018 56 (J)
C2002 100nF (K)
R2005 56 (J)
R2029 100nF (K)
R2014 56 (J)
C2006 100nF (K)
R2015 56 (J)
C2016 100nF (K)
R2024 4.7K (J)
C2010 100nF (K)
R2027 56 (J)
C2008 100nF (K)
R2006 4.7K (J)
C2001 100nF (K)
R2009 56 (J)
C2024 100nF (K)
R2034 4.7K (J)
C2007 100nF (K)
R2028 56 (J)
C2014 100nF (K)
W2000 0 (K)
R2020 4.7K (J)
R2002 4.7K (J)
[ZD] D2007
[ZD] D2011
[ZD] D2001
[ZD] D2009
[ZD] D2010
[ZD] D2014
[ZD] D2004
[ZD] D2006
[ZD] D2003
[ZD] D2000
R2023 4.7K (J)
[ZD] D2008
[ZD] D2005
[ZD] D2015
[ZD] D2013
[ZD] D2002
[ZD] D2012
R2007 4.7K (J)
[V-U32652]
1/11
IC400
L5 A1P
H2 A2P
H4 A3P
E1 A4P
J4 AN1
G1 AN2
K3 B1P
J3 B2P
F1 B3P
F3 B4P
K4 BN1
F2 BN2
J1 C1P
H1 C2P
G3 C3P
G5 C4P
K1 CN1
E2 CN2
K2 SV1P
J2 SV2P
G2 SV3P
G4 SV4P
H3 SN
M2 NC
M1 NC
L2 NC
L1 NC
L4 NC
L3 NC
M4 VOUT_1
D3 VOUT_2
N1 AHS
N2 AVS
N4 VGA_SDA
N3 VGA_SCL
400:1E
DDC_SCL
DDC_SDA
400:1E
1 2 3 4 5 6 7 8
A B C D E F

ネガティブフィードバックのラインは
直接GNDに落とさずに、
56Ωの付近まで引き出して繋げてください。

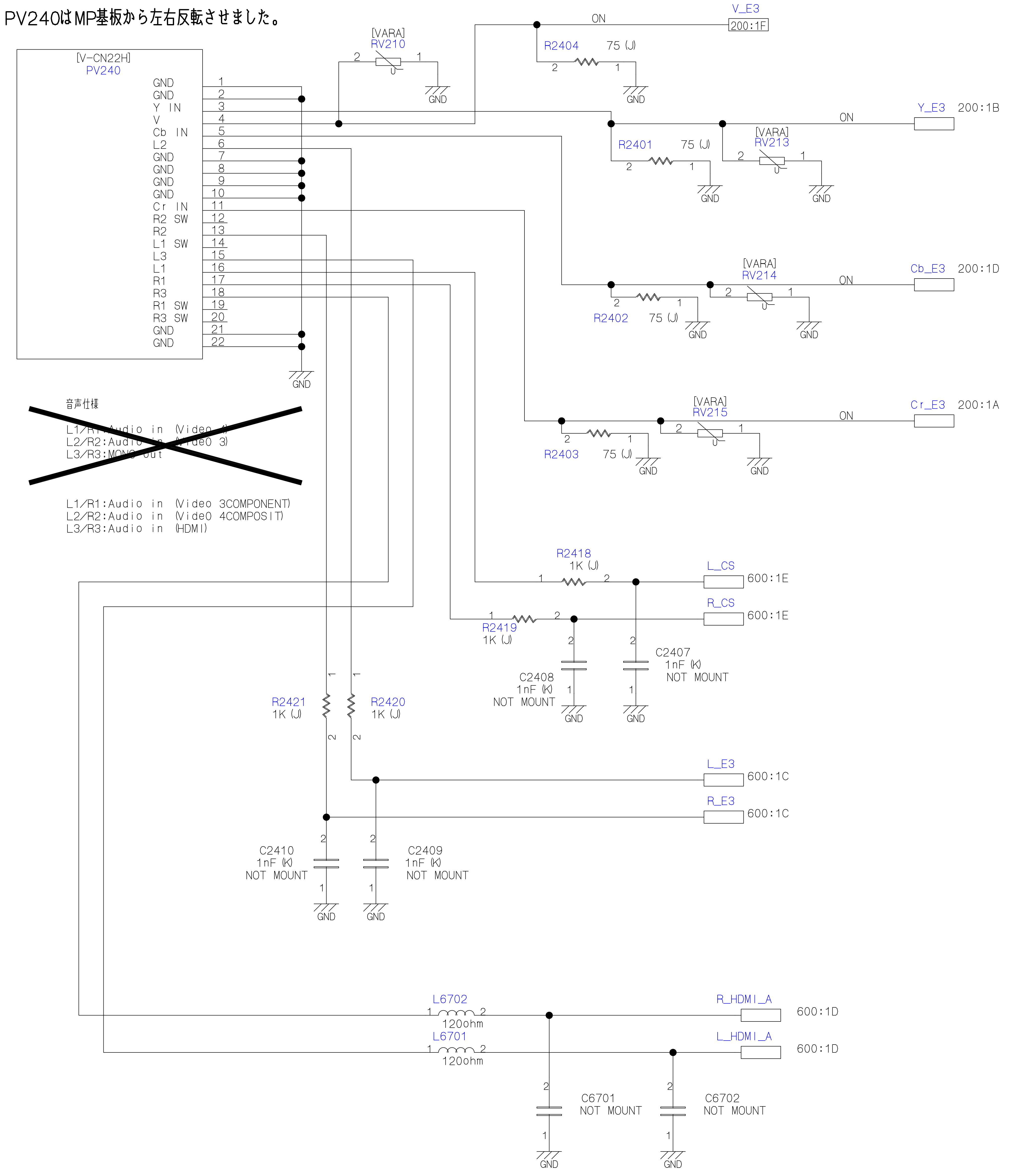
U03AS MAIN [200] EURO CORTEZ ANALOG_IN (PE0492)

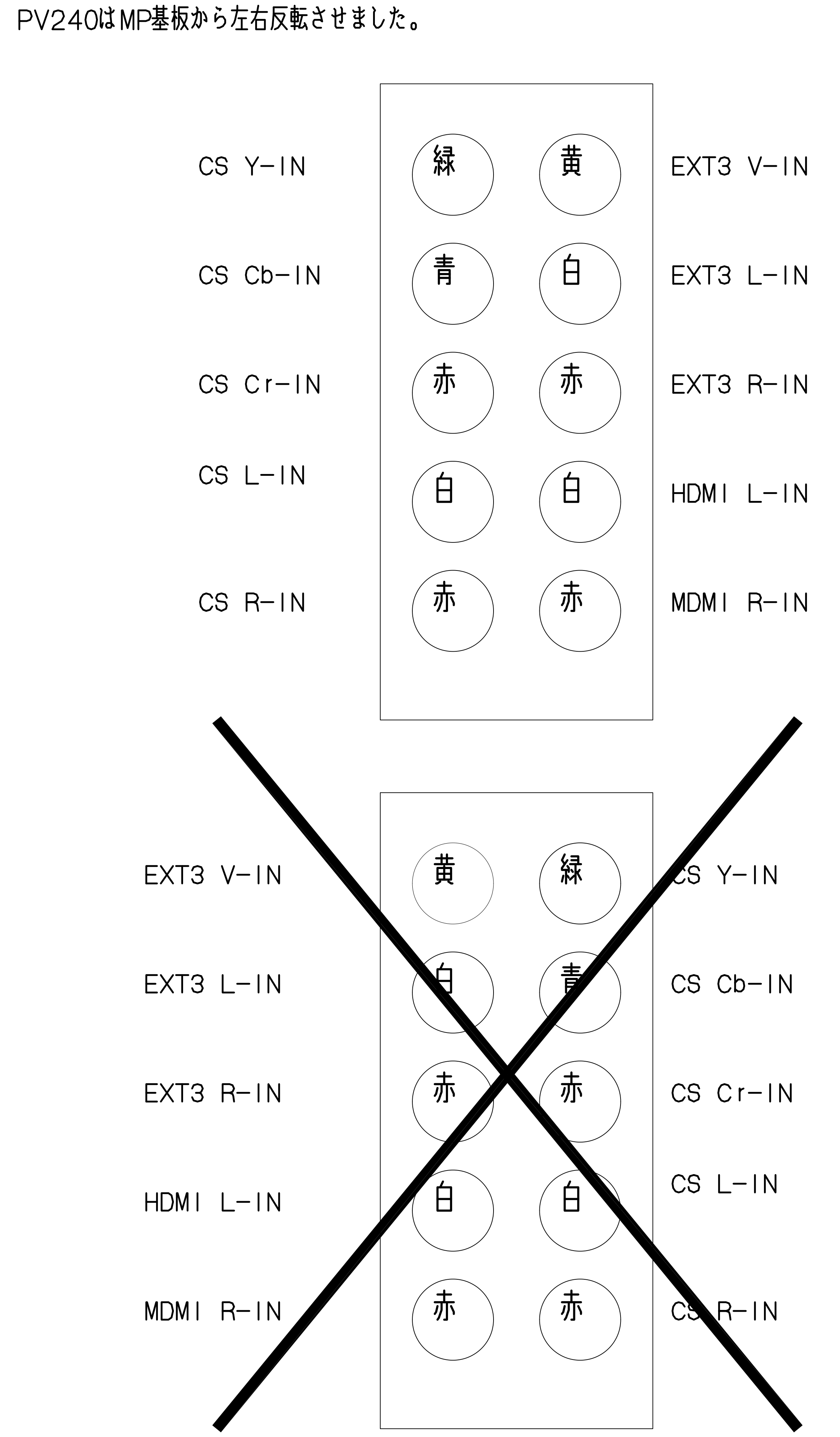

1
2
3
4
5
6
7
8
A
B
C
D
E
F
[V-CN21B]
PV201
SHIELD GND
CVBS/SY IN
VIDEO OUT
CVBS/SY IN RETURN
VIDEO OUT RETURN
FAST BLANKING
RED/SC IN
BLANKING RETURN
RED/SC RETURN
NC
GREEN IN
NC
GREEN RETURN
SLOW SWITCH
BLUE IN
AUDIO IN (L)
BLUE RETURN
AUDIO EARTH
AUDIO OUT (L)
AUDIO IN (R)
AUDIO OUT (R)
[FL09B]
FL220
4 ON
TV_OUT_1
GND
R2100
100mW
75 (J)
[VARA]
RV200
ON
V_E1
5V2
NOT MOUNT
C2101
[VARA]
RV201
RED_E1
R2101
100mW
75 (J)
[VARA]
RV202
GREEN_E1
R2102
100mW
75 (J)
[VARA]
RV203
BLUE_E1
R2103
100mW
75 (J)
R2104
3.3K (J)
R2105
100mW
150 (J)
[VARA]
RV204
0 (X)
R2107
R2106
100mW
150 (J)
R2108
6.8K (J)
[VARA]
RV205
[ZD]
D2104
UDZSTE-17 6.2B
D2100 MA112- (TX)
D2102
MA112- (TX)
CA
AC
D2101
MA112- (TX)
D2103
MA112- (TX)
R2149
1K (J)
8TH_E1
R2113
100 (J)
Q2101
2SA1162-Y (TE85R, F)
[TRP]
R2114
1K (J)
R2115
3.9K (J)
R2116
4.3K (J)
R2122
1K (J)
Q2104
2SC3437-Y (TE85L, F)
R2117
1.5K (J)
R2118
1K (J)
R2119
100 (J)
Q2102
2SC3437-Y (TE85L, F)
C2102
NOT MOUNT
R2120
2.2K (J)
R2121
100 (J)
SCART_FB
ON
Q2103
2SC4116-Y (TE85L, F)
SCART_FB_SIG
R2130
1K (J)
L_E1
C2105
NOT MOUNT
R2132
1K (J)
R_E1
C2106
NOT MOUNT
L2101
120ohm
L2102
120ohm
C2108
1.5nF (K)
C2107
1.5nF (K)
R2141
680 (J)
R2142
680 (J)
R2145
680 (J)
R2146
680 (J)
R_TV
202:8D:607:8B
L_TV
202:8D:607:8A
R2136
100K (J)
R2139
47K (J)
Q2105
2SC3326-B
R2137
100K (J)
R2140
47K (J)
Q2106
2SC3326-B
R2143
47K (J)
Q2107
2SC3326-B
R2144
47K (J)
Q2108
2SC3326-B
Q2109
[TRPD]
RN2404 (TE85L, F)
[CP]
C2109
10uF (M)
16V
R2148
10K (J)
D2105
MA112- (TX)
A_MUTE
202:8E:604:7B:606:1E
TV_MUTE
202:8E:400:7B
D2106
MA112- (TX)

U03AS MAIN [201] EURO SCART 1 (PE0492)

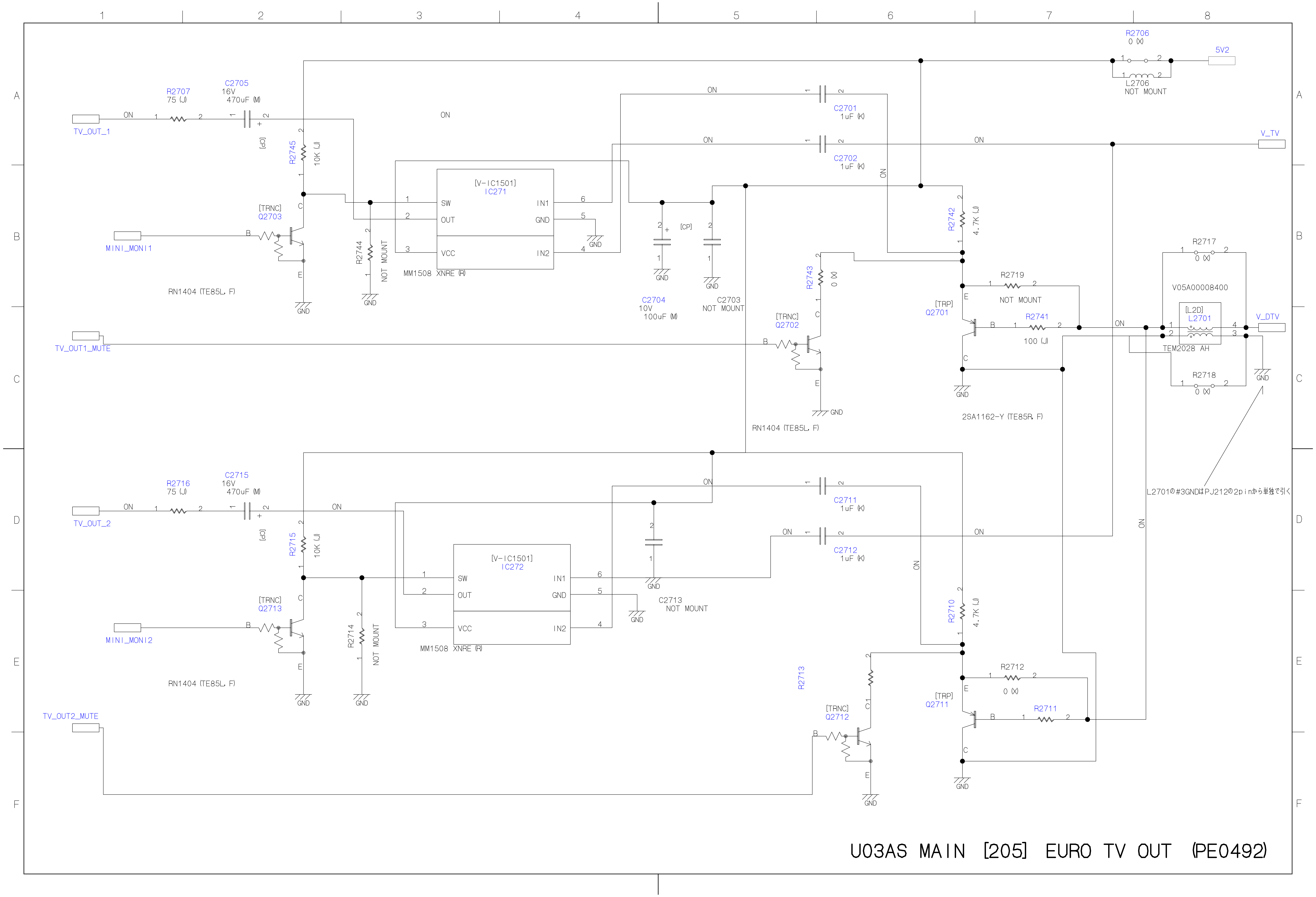

1
2
3
4
5
6
7
8
A
B
C
D
E
F
[V-CN21B]
PV202
SHIELD GND
CVBS/SY IN
VIDEO OUT
CVBS/SY IN RETURN
VIDEO OUT RETURN
FAST BLANKING
RED/SC IN
BLANKING RETURN
RED/SC RETURN
NC
GREEN IN
NC
GREEN RETURN
SLOW SWITCH
BLUE IN
AUDIO IN (L)
BLUE RETURN
AUDIO EARTH
AUDIO OUT (L)
AUDIO IN (R)
AUDIO OUT (R)
GND
[FL09B]
FL219
ON
ON
TV_OUT_2
GND
100mW
75 (J)
R2200
[VARA]
RV206
YV_E2
100mW
75 (J)
R2201
[VARA]
RV207
SC_E2
[VARA]
RV209
ON
AV_LINK_IN_RISE
R2202
10K (J)
R2203
6.8K (J)
[ZD]
D2200
NOT MOUNT
[VARA]
RV208
8TH_E2
R2210
1K (J)
L_E2
C2203
NOT MOUNT
R2211
1K (J)
R_E2
C2204
NOT MOUNT
L2201
120ohm
L2202
120ohm
C2206
1.5nF (K)
C2205
1.5nF (K)
R2218
680 (J)
R2219
680 (J)
R2222
680 (J)
R2223
680 (J)
R_TV
201:8D:607:8B
L_TV
201:8D:607:8A
R2214
100K (J)
R2216
47K (J)
Q2201
2SC3326-B
R2215
100K (J)
R2217
47K (J)
Q2202
2SC3326-B
R2220
47K (J)
Q2203
2SC3326-B
R2109
47K (J)
Q2204
2SC3326-B
Q2205
[TRPD]
RN2404 (TE85L, F)
[CP]
C2207
10uF (M)
16V
R2225
10K (J)
D2201
MA112- (TX)
A_MUTE
201:8E:604:7B:606:1E
TV_MUTE
201:8E:400:7B
D2202
MA112- (TX)
Q2206
2SC4081-Q
R2226
10K (J)
[CP]
C2208
10uF (M)
16V
MUTE_CANCEL
208:8D

U03AS MAIN [202] EURO SCART 2 (PE0492)

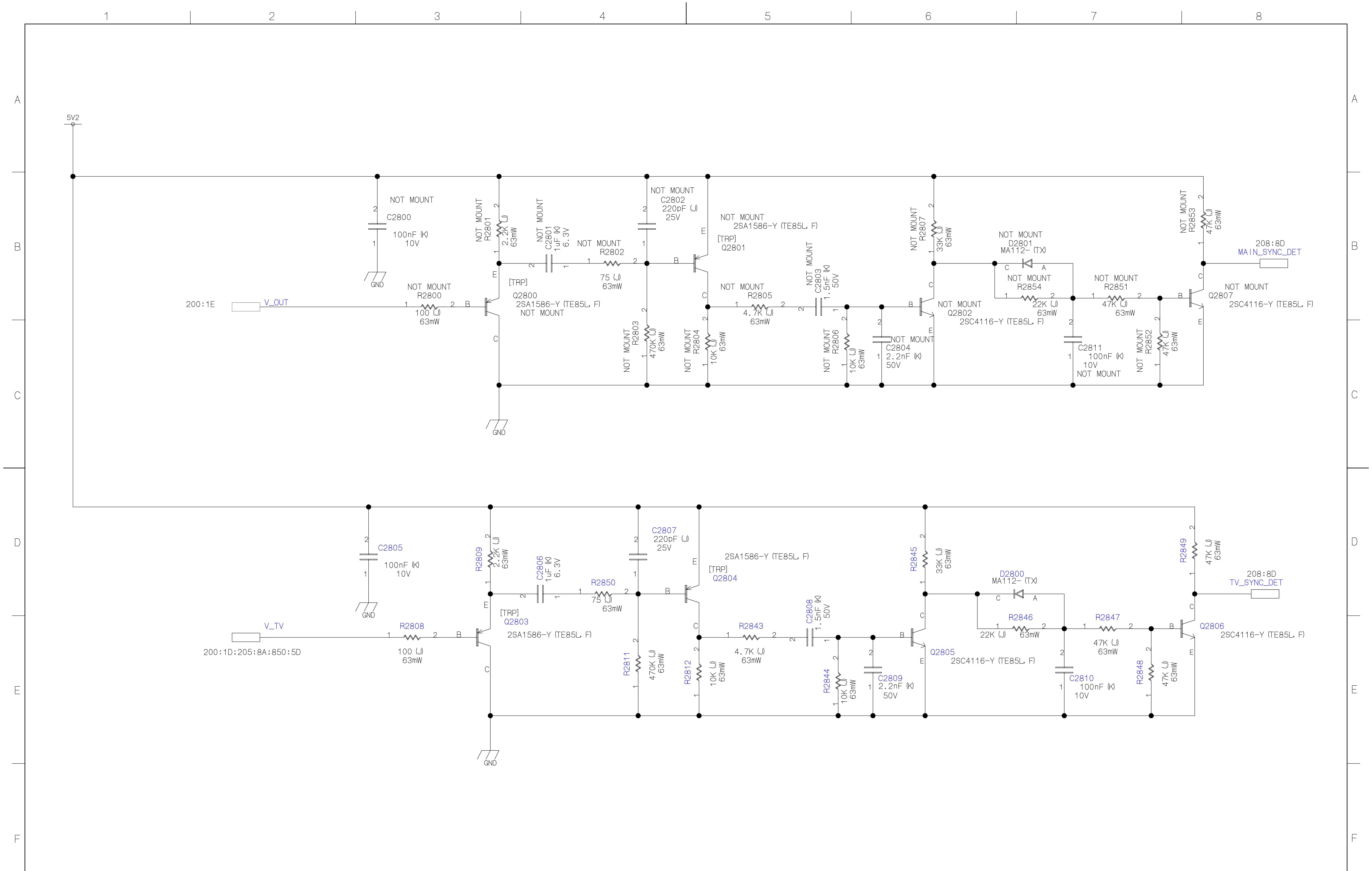

PV240はMP基板から左右反転させました。
[V-CN22H]
PV240
GND
GND
Y IN
V
Cb IN
L2
GND
GND
GND
GND
Cr IN
R2 SW
R2
L1 SW
L3
L1
R1
R3
R1 SW
R3 SW
GND
GND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
[VARA]
RV210
ON
V_E3
200:1F
R2404
75 (J)
Y_E3
200:1B
R2401
75 (J)
[VARA]
RV213
Cb_E3
200:1D
[VARA]
RV214
R2402
75 (J)
Cr_E3
200:1A
[VARA]
RV215
R2403
75 (J)
GND
~~音声仕様~~
~~L1/R1:Audio in (Video 4~~
~~L2/R2:Audio in (Video 3)~~
~~L3/R3:MONO out~~
L1/R1:Audio in (Video 3COMPONENT)
L2/R2:Audio in (Video 4COMPOSIT)
L3/R3:Audio in (HDMI)
R2418
1K (J)
L_CS
600:1E
R_CS
600:1E
R2419
1K (J)
C2408
1nF (K)
NOT MOUNT
C2407
1nF (K)
NOT MOUNT
R2421
1K (J)
R2420
1K (J)
L_E3
600:1C
R_E3
600:1C
C2410
1nF (K)
NOT MOUNT
C2409
1nF (K)
NOT MOUNT
L6702
120ohm
R_HDMI_A
600:1D
L6701
120ohm
L_HDMI_A
600:1D
C6701
NOT MOUNT
C6702
NOT MOUNT


PV240はMP基板から左右反転させました。
CS Y-IN
緑
黄
EXT3 V-IN
CS Cb-IN
青
白
EXT3 L-IN
CS Cr-IN
赤
赤
EXT3 R-IN
CS L-IN
白
白
HDMI L-IN
CS R-IN
赤
赤
MDMI R-IN
EXT3 V-IN
黄
緑
CS Y-IN
EXT3 L-IN
白
青
CS Cb-IN
EXT3 R-IN
赤
赤
CS Cr-IN
HDMI L-IN
白
白
CS L-IN
MDMI R-IN
赤
赤
CS R-IN

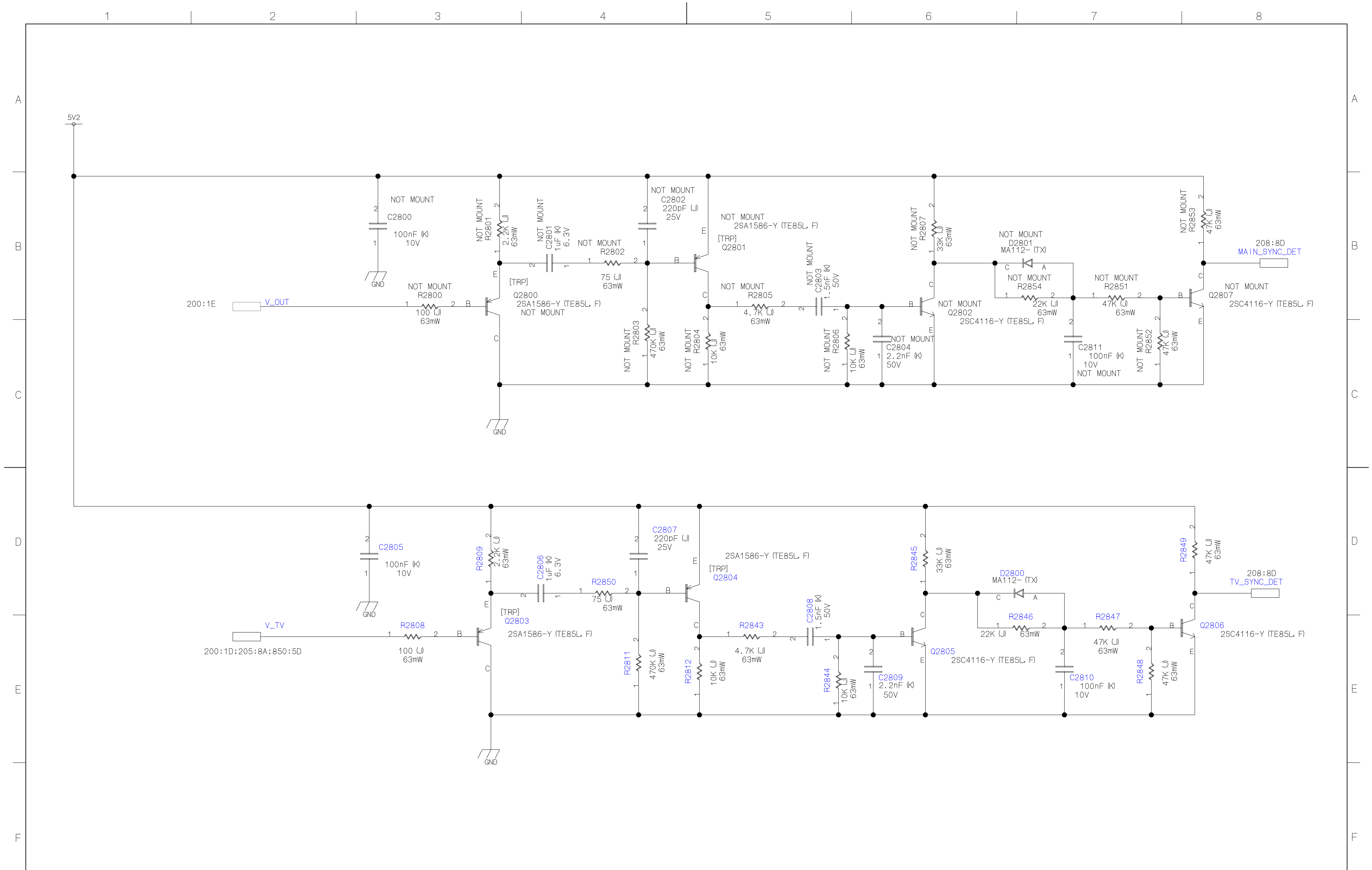
U03AS MAIN [204] EURO COMPONENT IN (PE0492)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
R2706
0 (X)
5V2
L2706
NOT MOUNT
R2707
75 (J)
C2705
16V
470uF (M)
TV_OUT_1
ON
[CP]
R2745
10K (J)
C2701
1uF (K)
C2702
1uF (K)
V_TV
[V-IC1501]
IC271
SW
OUT
VCC
IN1
GND
IN2
MM1508 XNRE (R)
[TRNC]
Q2703
MINI_MONI1
RN1404 (TE85L, F)
R2744
NOT MOUNT
GND
C2704
10V
100uF (M)
C2703
NOT MOUNT
R2742
4.7K (J)
R2743
0 (X)
[TRNC]
Q2702
[TRP]
Q2701
R2719
NOT MOUNT
R2741
100 (J)
2SA1162-Y (TE85R, F)
TV_OUT1_MUTE
R2717
0 (X)
V05A00008400
[L2D]
L2701
TEM2028 AH
V_DTV
R2718
0 (X)
L2701の#3GNDはPJ212の2pinから単独で引く
R2716
75 (J)
C2715
16V
470uF (M)
TV_OUT_2
R2715
10K (J)
[V-IC1501]
IC272
C2711
1uF (K)
C2712
1uF (K)
C2713
NOT MOUNT
[TRNC]
Q2713
MINI_MONI2
R2714
NOT MOUNT
R2710
4.7K (J)
R2712
0 (X)
R2713
[TRP]
Q2711
R2711
[TRNC]
Q2712
TV_OUT2_MUTE

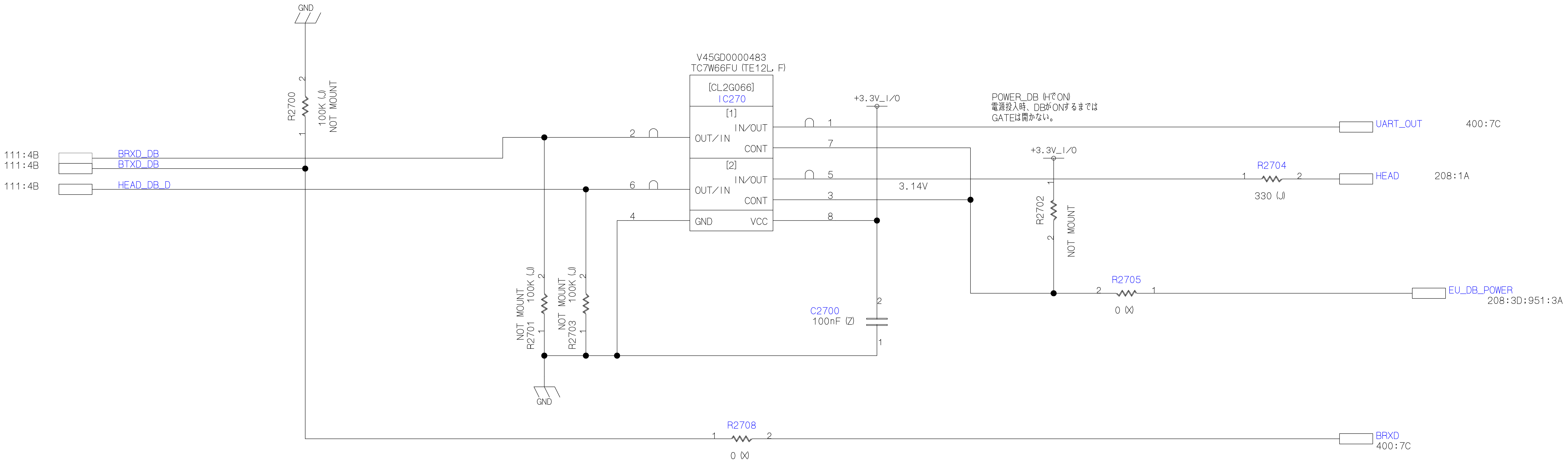
U03AS MAIN [205] EURO TV OUT (PE0492)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
5V2
NOT MOUNT
C2800
100nF (K)
10V
GND
NOT MOUNT
R2801
2.2K (J)
63mW
NOT MOUNT
C2801
1uF (K)
6.3V
NOT MOUNT
R2802
75 (J)
63mW
NOT MOUNT
C2802
220pF (J)
25V
NOT MOUNT
2SA1586-Y (TE85L, F)
[TRP]
Q2801
200:1E
V_OUT
NOT MOUNT
R2800
100 (J)
63mW
[TRP]
Q2800
2SA1586-Y (TE85L, F)
NOT MOUNT
NOT MOUNT
R2803
470K (J)
63mW
NOT MOUNT
R2804
10K (J)
63mW
NOT MOUNT
R2805
4.7K (J)
63mW
NOT MOUNT
C2803
1.5nF (K)
50V
NOT MOUNT
R2806
10K (J)
63mW
NOT MOUNT
C2804
2.2nF (K)
50V
NOT MOUNT
R2807
33K (J)
63mW
NOT MOUNT
Q2802
2SC4116-Y (TE85L, F)
NOT MOUNT
D2801
MA112- (TX)
NOT MOUNT
R2854
22K (J)
63mW
C2811
100nF (K)
10V
NOT MOUNT
NOT MOUNT
R2851
47K (J)
63mW
NOT MOUNT
R2852
47K (J)
63mW
NOT MOUNT
R2853
47K (J)
63mW
NOT MOUNT
Q2807
2SC4116-Y (TE85L, F)
208:8D
MAIN_SYNC_DET
C2805
100nF (K)
10V
R2809
2.2K (J)
63mW
C2806
1uF (K)
6.3V
R2850
75 (J)
63mW
C2807
220pF (J)
25V
2SA1586-Y (TE85L, F)
[TRP]
Q2804
V_TV
200:1D:205:8A:850:5D
R2808
100 (J)
63mW
[TRP]
Q2803
2SA1586-Y (TE85L, F)
R2811
470K (J)
63mW
R2812
10K (J)
63mW
R2843
4.7K (J)
63mW
C2808
1.5nF (K)
50V
R2844
10K (J)
63mW
C2809
2.2nF (K)
50V
R2845
33K (J)
63mW
Q2805
2SC4116-Y (TE85L, F)
D2800
MA112- (TX)
R2846
22K (J)
63mW
R2847
47K (J)
63mW
C2810
100nF (K)
10V
R2848
47K (J)
63mW
R2849
47K (J)
63mW
Q2806
2SC4116-Y (TE85L, F)
208:8D
TV_SYNC_DET

U03AS MAIN [206] SYNC SEPA (PE0492)

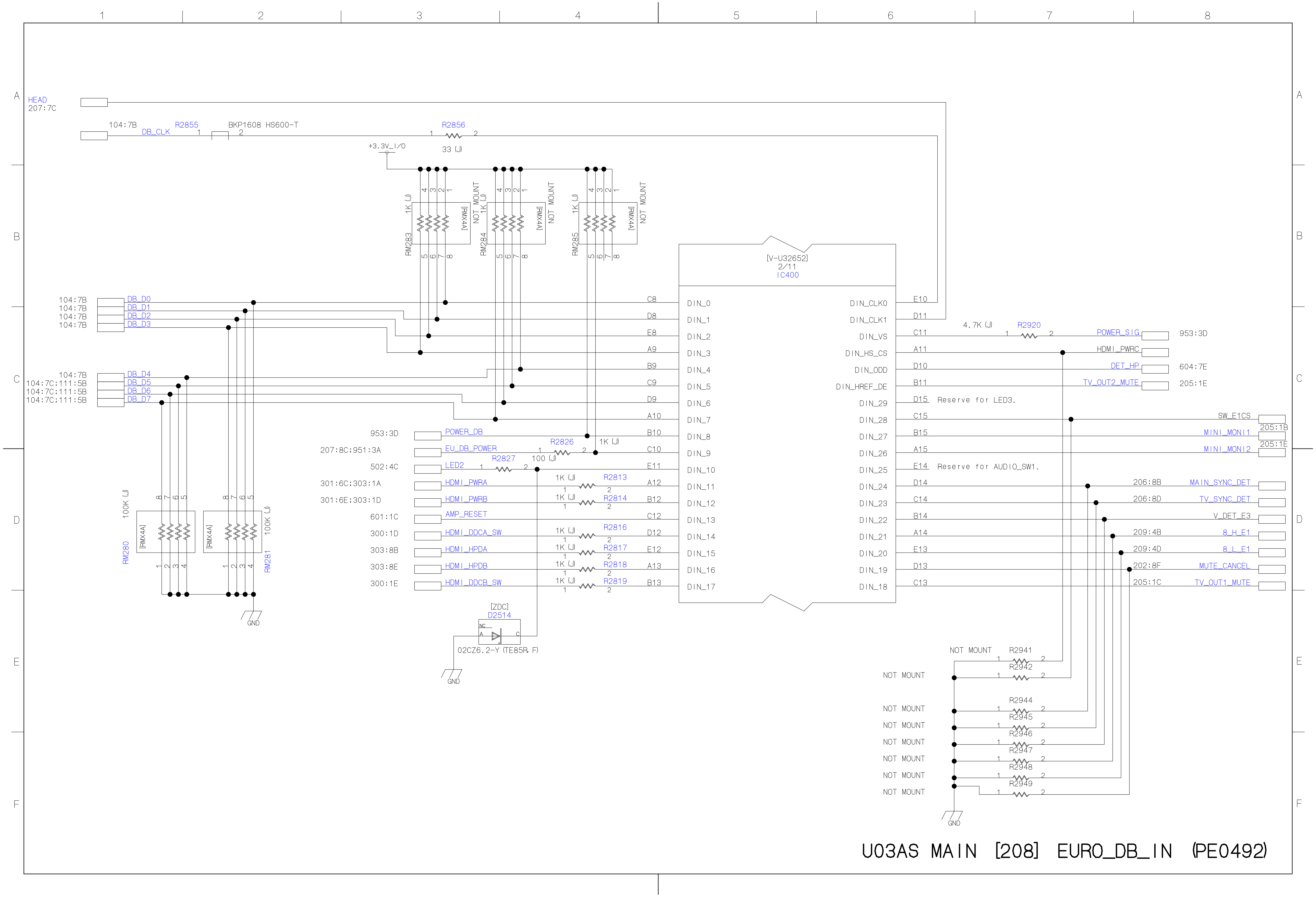

1
2
3
4
5
6
7
8
A
B
C
D
E
F
5V2
GND
200:1E
V_OUT
NOT MOUNT
C2800
100nF (K)
10V
NOT MOUNT
R2800
100 (J)
63mW
NOT MOUNT
R2801
2.2K (J)
63mW
NOT MOUNT
C2801
1uF (K)
6.3V
[TRP]
Q2800
2SA1586-Y (TE85L, F)
NOT MOUNT
NOT MOUNT
R2802
75 (J)
63mW
NOT MOUNT
C2802
220pF (J)
25V
NOT MOUNT
R2803
470K (J)
63mW
NOT MOUNT
2SA1586-Y (TE85L, F)
[TRP]
Q2801
NOT MOUNT
R2804
10K (J)
63mW
NOT MOUNT
R2805
4.7K (J)
63mW
NOT MOUNT
C2803
1.5nF (K)
50V
NOT MOUNT
R2806
10K (J)
63mW
NOT MOUNT
C2804
2.2nF (K)
50V
NOT MOUNT
R2807
33K (J)
63mW
NOT MOUNT
Q2802
2SC4116-Y (TE85L, F)
NOT MOUNT
D2801
MA112- (TX)
NOT MOUNT
R2854
22K (J)
63mW
C2811
100nF (K)
10V
NOT MOUNT
NOT MOUNT
R2851
47K (J)
63mW
NOT MOUNT
R2852
47K (J)
63mW
NOT MOUNT
R2853
47K (J)
63mW
NOT MOUNT
Q2807
2SC4116-Y (TE85L, F)
208:8D
MAIN_SYNC_DET
C2805
100nF (K)
10V
V_TV
200:1D:205:8A:850:5D
R2808
100 (J)
63mW
R2809
2.2K (J)
63mW
C2806
1uF (K)
6.3V
[TRP]
Q2803
2SA1586-Y (TE85L, F)
R2850
75 (J)
63mW
C2807
220pF (J)
25V
R2811
470K (J)
63mW
2SA1586-Y (TE85L, F)
[TRP]
Q2804
R2812
10K (J)
63mW
R2843
4.7K (J)
63mW
C2808
1.5nF (K)
50V
R2844
10K (J)
63mW
C2809
2.2nF (K)
50V
R2845
33K (J)
63mW
Q2805
2SC4116-Y (TE85L, F)
D2800
MA112- (TX)
R2846
22K (J)
63mW
C2810
100nF (K)
10V
R2847
47K (J)
63mW
R2848
47K (J)
63mW
R2849
47K (J)
63mW
Q2806
2SC4116-Y (TE85L, F)
208:8D
TV_SYNC_DET
B
C
E

U03AS MAIN [206] SYNC SEPA (PE0492)

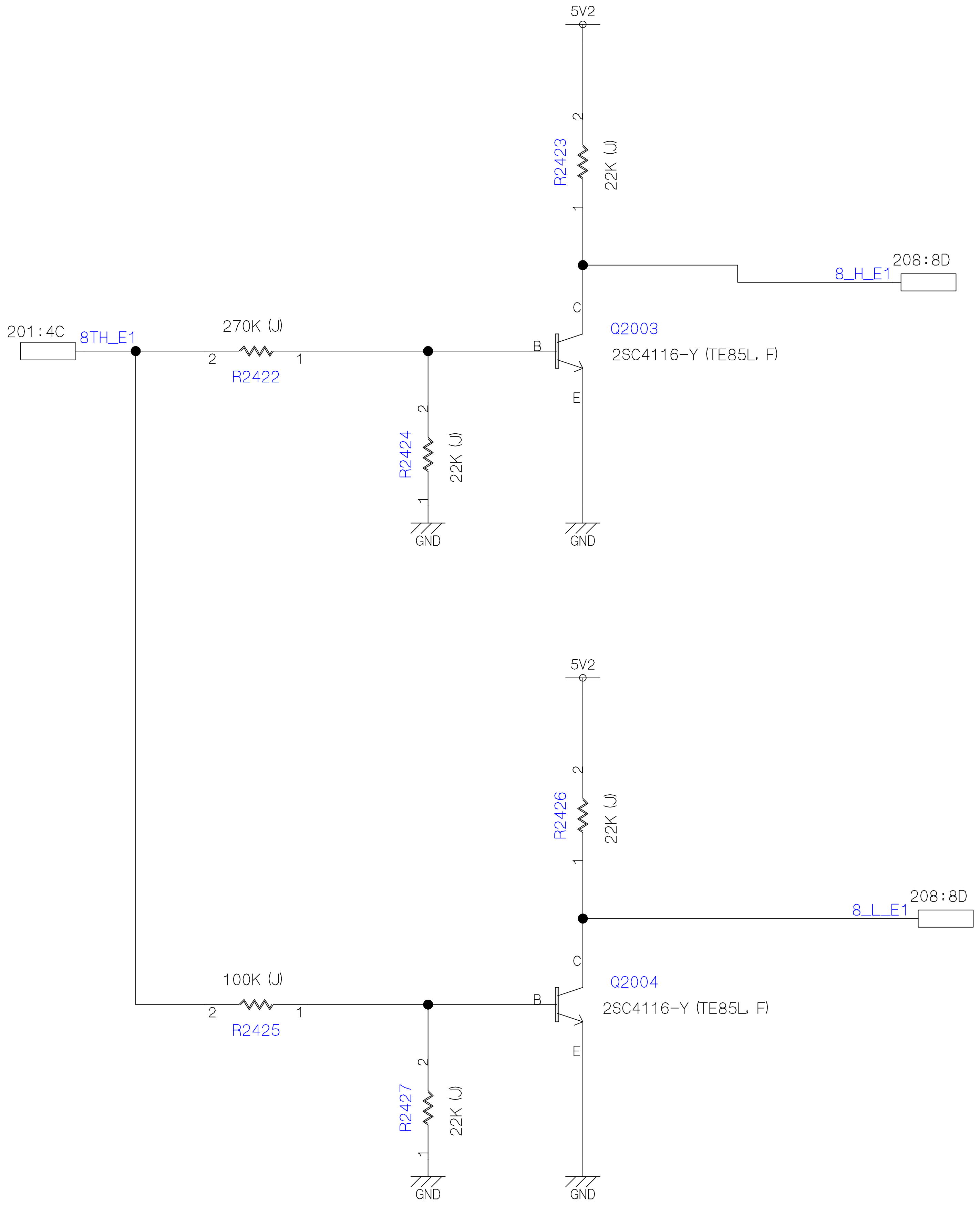

GND
R2700
100K (J)
NOT MOUNT
111:4B
111:4B
111:4B
BRXD_DB
BTXD_DB
HEAD_DB_D
V45GD0000483
TC7W66FU (TE12L, F)
[CL2G066]
IC270
[1]
OUT/IN
IN/OUT
CONT
[2]
OUT/IN
IN/OUT
CONT
GND
VCC
+3.3V_I/O
3.14V
C2700
100nF (Z)
NOT MOUNT
100K (J)
R2701
NOT MOUNT
100K (J)
R2703
GND
+3.3V_I/O
R2702
NOT MOUNT
R2704
330 (J)
R2705
0 (X)
R2708
0 (X)
UART_OUT
400:7C
HEAD
208:1A
EU_DB_POWER
208:3D;951:3A
BRXD
400:7C

POWER_DB (HでON)
電源投入時、DBがONするまでは
GATEは開かない。

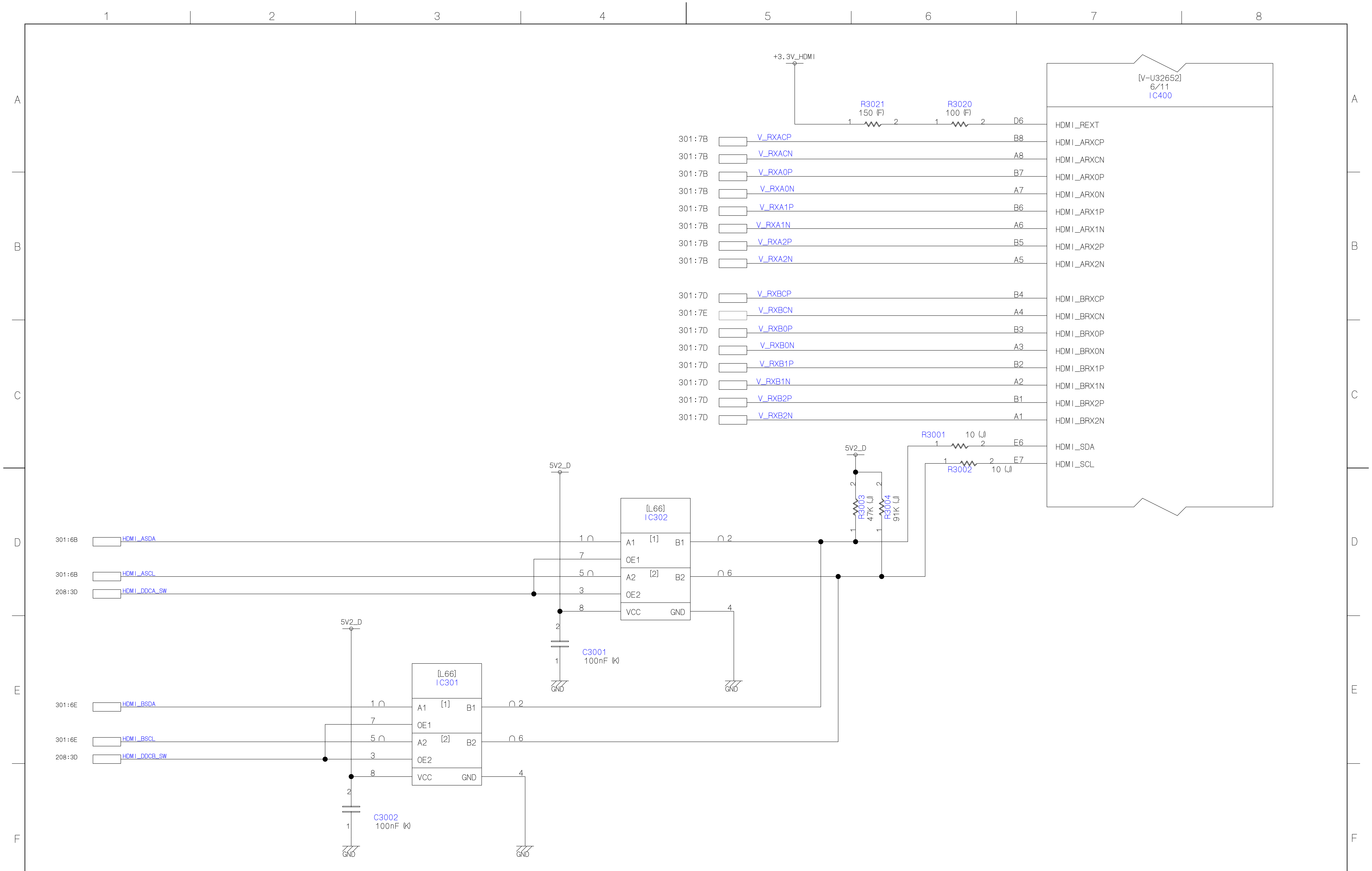
U03AS MAIN [207] DB_UART_SW (PE0492)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
HEAD
207:7C
104:7B
DB_CLK
R2855
1
BKP1608 HS600-T
2
R2856
1
2
33 (J)
+3.3V_I/O
RM283
1K (J)
[RMX4A]
NOT MOUNT
RM284
1K (J)
[RMX4A]
NOT MOUNT
RM285
1K (J)
[RMX4A]
NOT MOUNT
[V-U32652]
2/11
IC400
104:7B
DB_D0
DB_D1
DB_D2
DB_D3
104:7C:111:5B
DB_D4
DB_D5
DB_D6
DB_D7
C8
D8
E8
A9
B9
C9
D9
A10
B10
C10
E11
A12
B12
C12
D12
E12
A13
B13
DIN_0
DIN_1
DIN_2
DIN_3
DIN_4
DIN_5
DIN_6
DIN_7
DIN_8
DIN_9
DIN_10
DIN_11
DIN_12
DIN_13
DIN_14
DIN_15
DIN_16
DIN_17
DIN_CLK0
DIN_CLK1
DIN_VS
DIN_HS_CS
DIN_ODD
DIN_HREF_DE
DIN_29
DIN_28
DIN_27
DIN_26
DIN_25
DIN_24
DIN_23
DIN_22
DIN_21
DIN_20
DIN_19
DIN_18
E10
D11
C11
A11
D10
B11
D15
C15
B15
A15
E14
D14
C14
B14
A14
E13
D13
C13
4.7K (J)
R2920
POWER_SIG
953:3D
HDMI_PWRC
DET_HP
604:7E
TV_OUT2_MUTE
205:1E
Reserve for LED3.
SW_E1CS
205:1B
MINI_MONI1
MINI_MONI2
205:1E
Reserve for AUDIO_SW1.
206:8B
MAIN_SYNC_DET
206:8D
TV_SYNC_DET
V_DET_E3
209:4B
8_H_E1
209:4D
8_L_E1
202:8F
MUTE_CANCEL
205:1C
TV_OUT1_MUTE
953:3D
POWER_DB
207:8C:951:3A
EU_DB_POWER
R2826
1K (J)
502:4C
LED2
R2827
100 (J)
301:6C:303:1A
HDMI_PWRA
1K (J)
R2813
301:6E:303:1D
HDMI_PWRB
1K (J)
R2814
601:1C
AMP_RESET
300:1D
HDMI_DDCA_SW
1K (J)
R2816
303:8B
HDMI_HPDA
1K (J)
R2817
303:8E
HDMI_HPDB
1K (J)
R2818
300:1E
HDMI_DDCB_SW
1K (J)
R2819
RM280
100K (J)
[RMX4A]
RM281
100K (J)
[RMX4A]
GND
[ZDC]
D2514
NC
A
C
02CZ6.2-Y (TE85R, F)
GND
NOT MOUNT
R2941
NOT MOUNT
R2942
NOT MOUNT
R2944
NOT MOUNT
R2945
NOT MOUNT
R2946
NOT MOUNT
R2947
NOT MOUNT
R2948
NOT MOUNT
R2949
GND

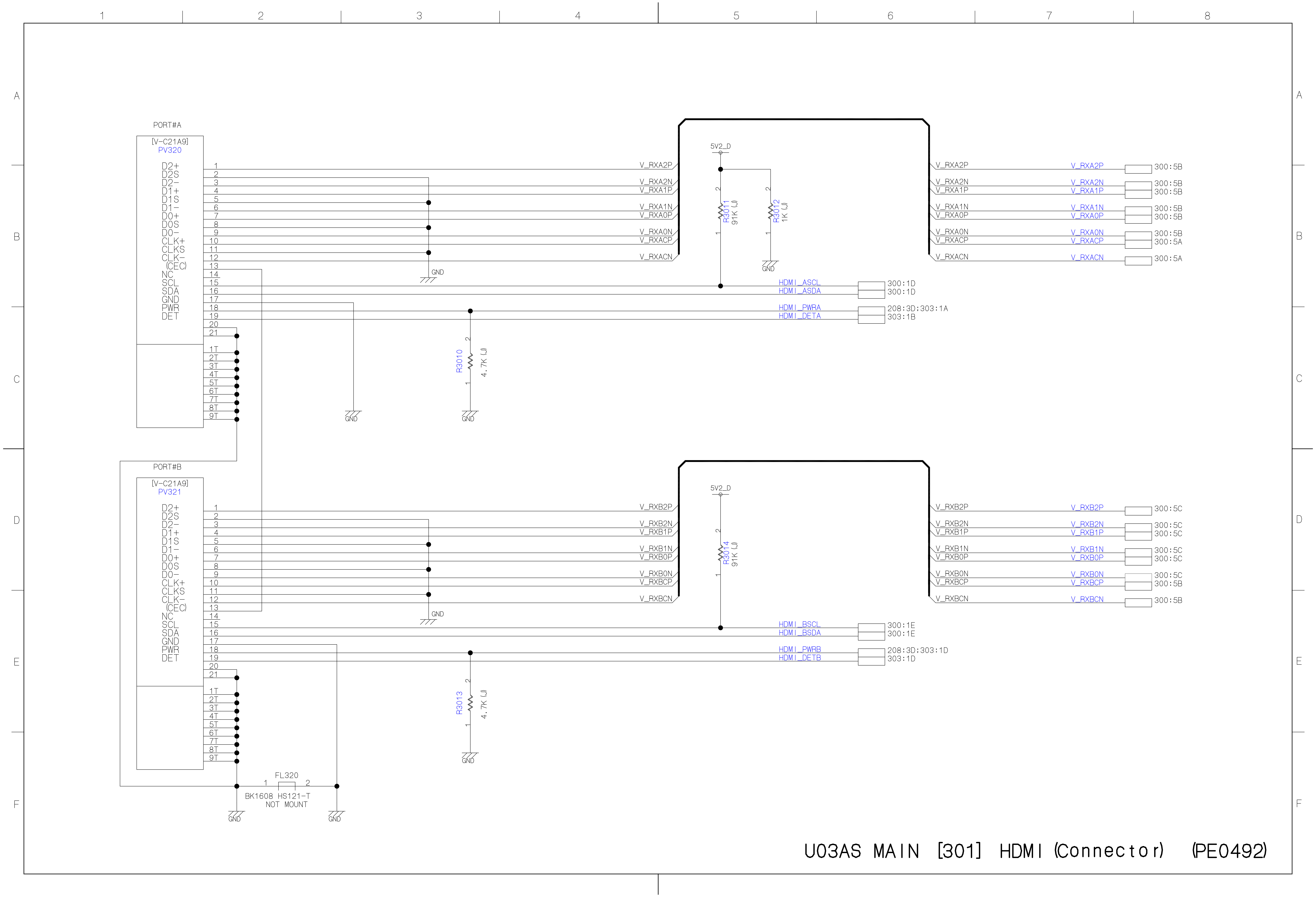
U03AS MAIN [208] EURO_DB_IN (PE0492)


5V2
R2423
22K (J)
2
1
208:8D
8_H_E1
C
Q2003
2SC4116-Y (TE85L, F)
B
E
201:4C
8TH_E1
270K (J)
2
1
R2422
R2424
22K (J)
GND
GND
5V2
R2426
22K (J)
208:8D
8_L_E1
C
Q2004
2SC4116-Y (TE85L, F)
B
E
100K (J)
2
1
R2425
R2427
22K (J)
GND
GND

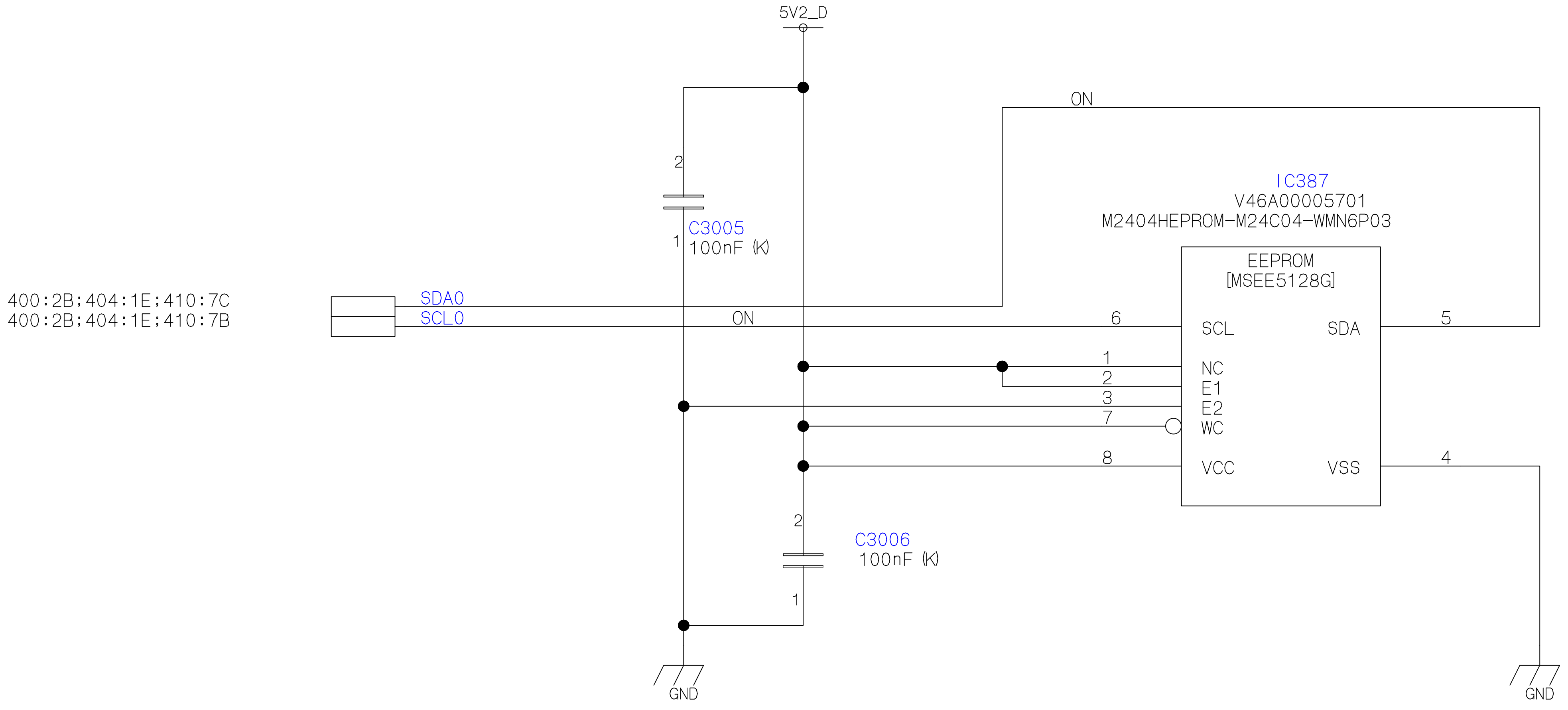
U03AS MAIN [205] SCART1_#8_SW (PE0492)


+3.3V_HDMI
R3021
150 (F)
R3020
100 (F)
[V-U32652]
6/11
IC400
D6 HDMI_REXT
301:7B V_RXACP B8 HDMI_ARXCP
301:7B V_RXACN A8 HDMI_ARXCN
301:7B V_RXA0P B7 HDMI_ARX0P
301:7B V_RXA0N A7 HDMI_ARX0N
301:7B V_RXA1P B6 HDMI_ARX1P
301:7B V_RXA1N A6 HDMI_ARX1N
301:7B V_RXA2P B5 HDMI_ARX2P
301:7B V_RXA2N A5 HDMI_ARX2N
301:7D V_RXBCP B4 HDMI_BRXCP
301:7E V_RXBCN A4 HDMI_BRXCN
301:7D V_RXB0P B3 HDMI_BRX0P
301:7D V_RXB0N A3 HDMI_BRX0N
301:7D V_RXB1P B2 HDMI_BRX1P
301:7D V_RXB1N A2 HDMI_BRX1N
301:7D V_RXB2P B1 HDMI_BRX2P
301:7D V_RXB2N A1 HDMI_BRX2N
R3001 10 (J) E6 HDMI_SDA
R3002 10 (J) E7 HDMI_SCL
5V2_D
R3003 47K (J)
R3004 91K (J)
5V2_D
[L66]
IC302
A1 [1] B1
OE1
A2 [2] B2
OE2
VCC GND
301:6B HDMI_ASDA
301:6B HDMI_ASCL
208:3D HDMI_DDCA_SW
C3001
100nF (K)
GND
GND
5V2_D
[L66]
IC301
A1 [1] B1
OE1
A2 [2] B2
OE2
VCC GND
301:6E HDMI_BSDA
301:6E HDMI_BSCL
208:3D HDMI_DDCB_SW
C3002
100nF (K)
GND
GND

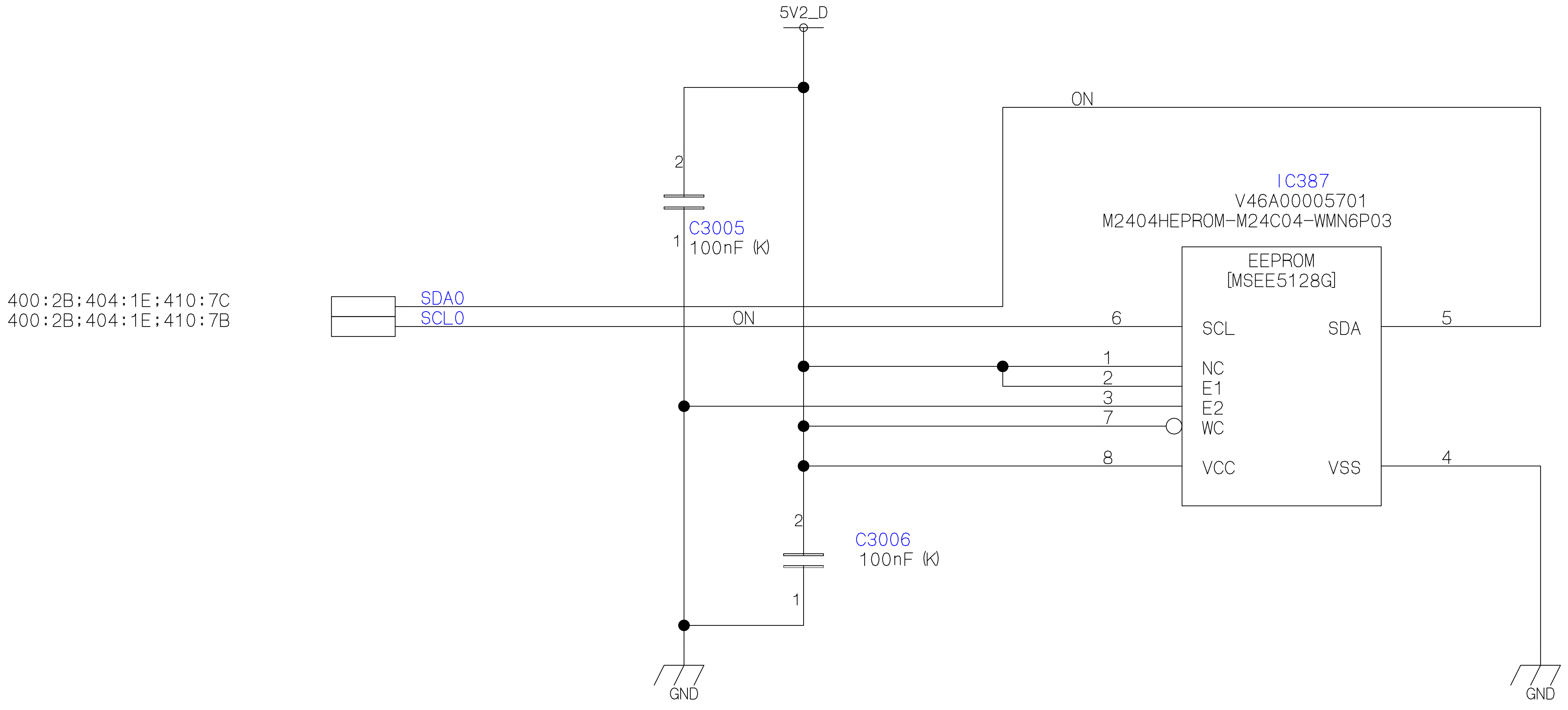
U03AS MAIN [300] HDMI (TMDS_IN) (PE0492)


PORT#A
[V-C21A9]
PV320
D2+
D2S
D2-
D1+
D1S
D1-
D0+
D0S
D0-
CLK+
CLKS
CLK-
(CEC)
NC
SCL
SDA
GND
PWR
DET
1T 2T 3T 4T 5T 6T 7T 8T 9T
V_RXA2P
V_RXA2N
V_RXA1P
V_RXA1N
V_RXA0P
V_RXA0N
V_RXACP
V_RXACN
5V2_D
R3011 91K (J)
R3012 1K (J)
GND
HDMI_ASCL 300:1D
HDMI_ASDA 300:1D
HDMI_PWRA 208:3D:303:1A
HDMI_DETA 303:1B
R3010 4.7K (J)
V_RXA2P 300:5B
V_RXA2N 300:5B
V_RXA1P 300:5B
V_RXA1N 300:5B
V_RXA0P 300:5B
V_RXA0N 300:5B
V_RXACP 300:5A
V_RXACN 300:5A
PORT#B
[V-C21A9]
PV321
V_RXB2P
V_RXB2N
V_RXB1P
V_RXB1N
V_RXB0P
V_RXB0N
V_RXBCP
V_RXBCN
R3014 91K (J)
HDMI_BSCL 300:1E
HDMI_BSDA 300:1E
HDMI_PWRB 208:3D:303:1D
HDMI_DETB 303:1D
R3013 4.7K (J)
V_RXB2P 300:5C
V_RXB2N 300:5C
V_RXB1P 300:5C
V_RXB1N 300:5C
V_RXB0P 300:5C
V_RXB0N 300:5C
V_RXBCP 300:5B
V_RXBCN 300:5B
FL320
BK1608 HS121-T
NOT MOUNT
1 2 3 4 5 6 7 8
A B C D E F

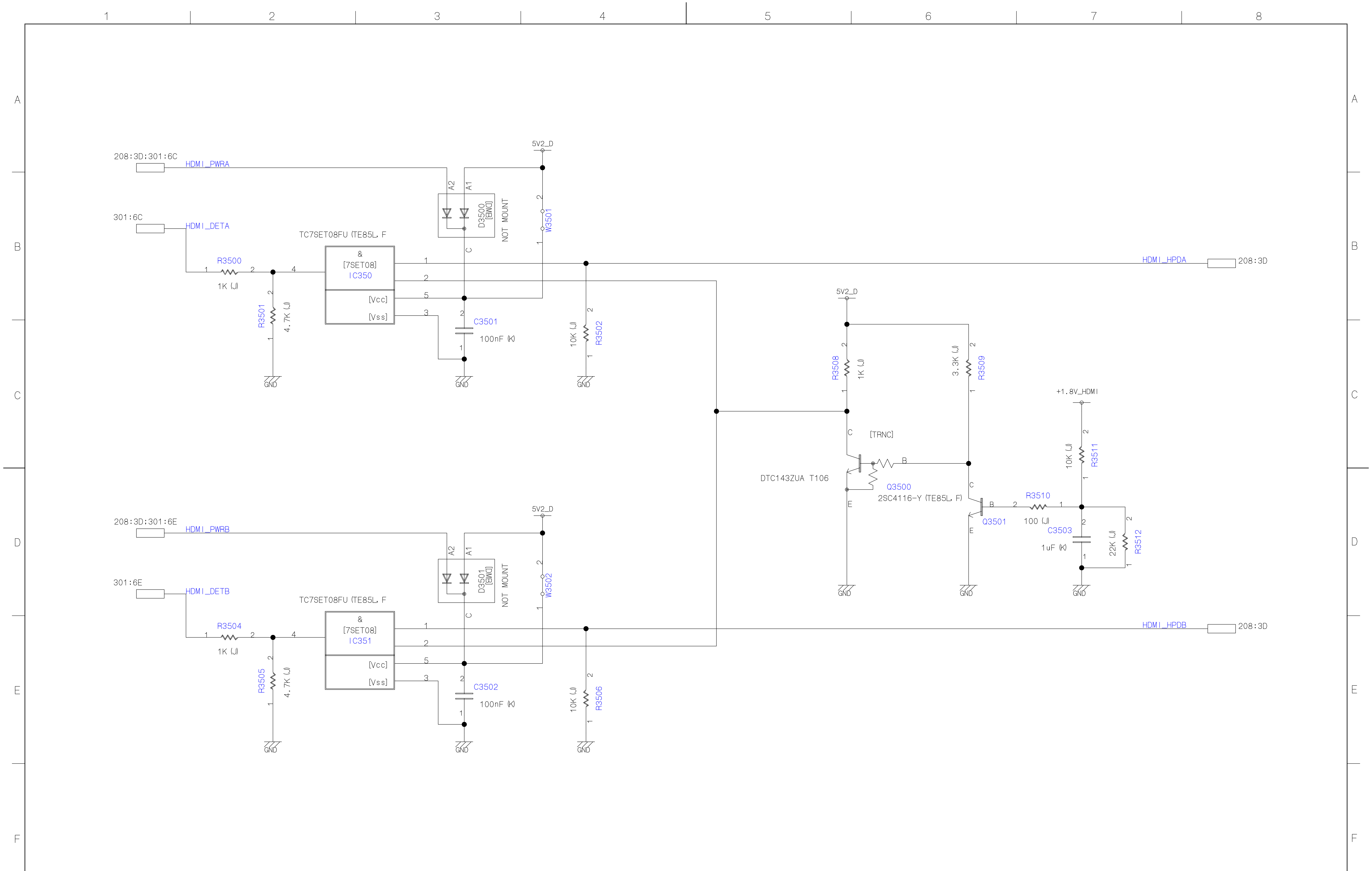
U03AS MAIN [301] HDMI (Connector) (PE0492)


5V2_D
ON
IC387
V46A00005701
M2404HEPROM-M24C04-WMN6P03
EEPROM
[MSEE5128G]
2
C3005
1
100nF (K)
400:2B;404:1E;410:7C
400:2B;404:1E;410:7B
SDA0
SCL0
ON
6
SCL
SDA
5
1
NC
2
E1
3
E2
7
WC
8
VCC
VSS
4
2
C3006
100nF (K)
1
GND
GND

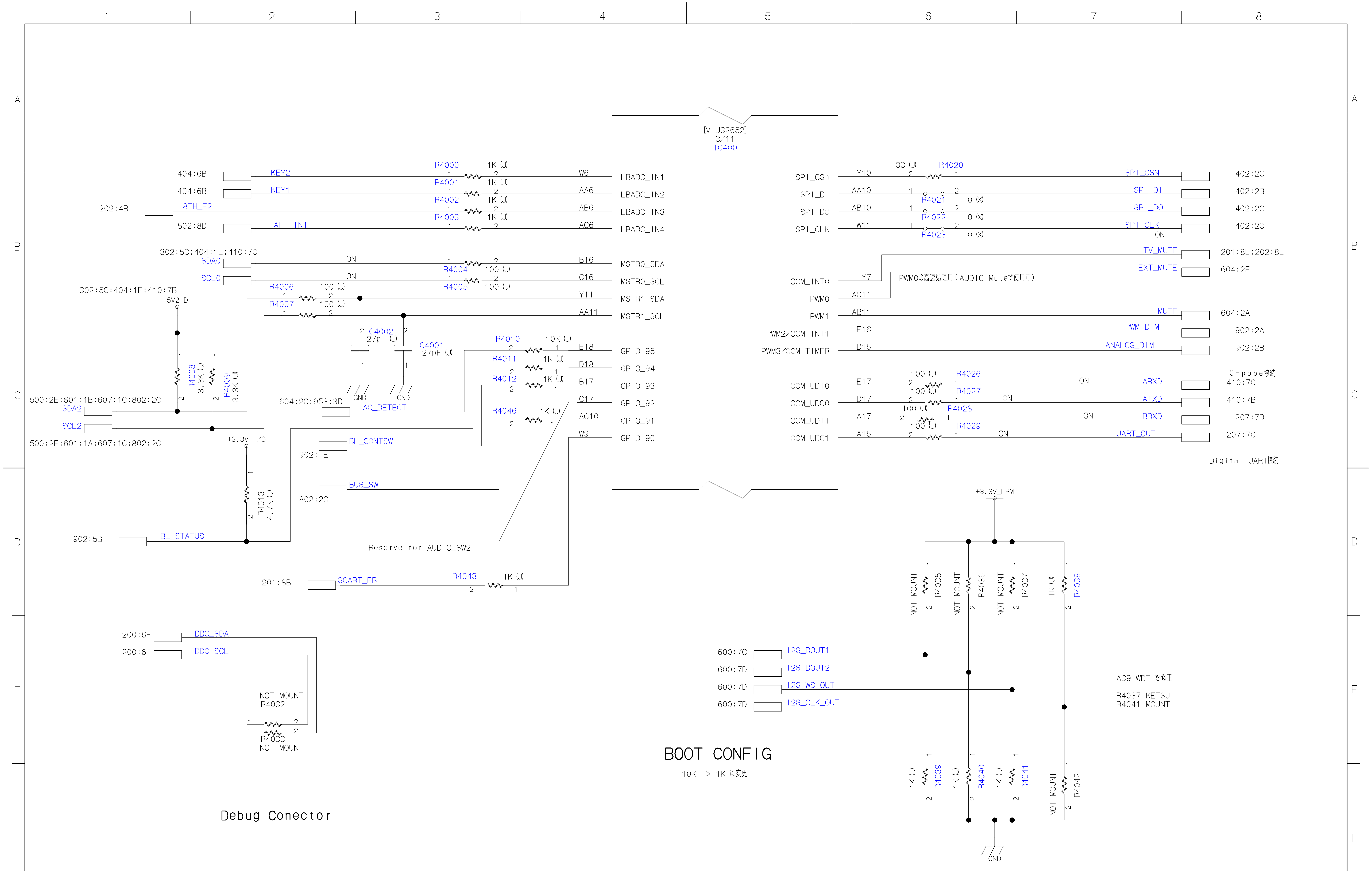
U03AS MAIN [302] HDMI (HDCP_KEY) (PE0492)


5V2_D
ON
IC387
V46A00005701
M2404HEPROM-M24C04-WMN6P03
EEPROM
[MSEE5128G]
C3005
100nF (K)
2
1
400:2B;404:1E;410:7C
400:2B;404:1E;410:7B
SDA0
SCL0
ON
6
SCL
SDA
5
1
NC
2
E1
3
E2
7
WC
8
VCC
VSS
4
C3006
100nF (K)
2
1
GND
GND

U03AS MAIN [302] HDMI (HDCP_KEY) (PE0492)

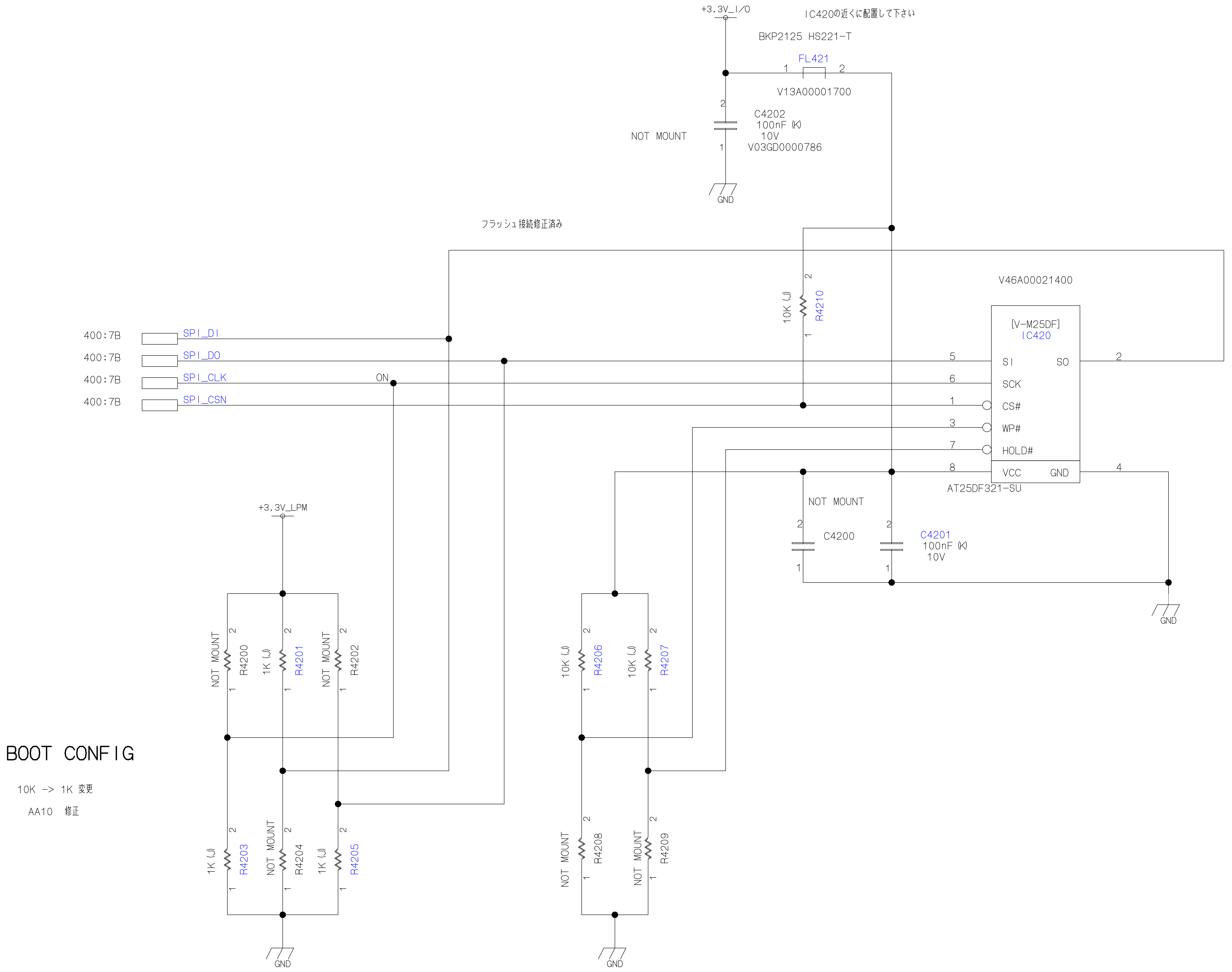

1
2
3
4
5
6
7
8
A
B
C
D
E
F
208:3D:301:6C
HDMI_PWRA
301:6C
HDMI_DETA
R3500
1K (J)
R3501
4.7K (J)
TC7SET08FU (TE85L, F
&
[7SET08]
IC350
[Vcc]
[Vss]
5V2_D
A2
A1
D3500
[BMD]
NOT MOUNT
W3501
C
C3501
100nF (K)
10K (J)
R3502
GND
HDMI_HPDA
208:3D
5V2_D
R3508
1K (J)
3.3K (J)
R3509
[TRNC]
B
C
E
DTC143ZUA T106
Q3500
2SC4116-Y (TE85L, F)
Q3501
+1.8V_HDMI
10K (J)
R3511
R3510
100 (J)
C3503
1uF (K)
22K (J)
R3512
208:3D:301:6E
HDMI_PWRB
301:6E
HDMI_DETB
R3504
1K (J)
R3505
4.7K (J)
TC7SET08FU (TE85L, F
&
[7SET08]
IC351
[Vcc]
[Vss]
5V2_D
D3501
[BMD]
NOT MOUNT
W3502
C3502
100nF (K)
10K (J)
R3506
HDMI_HPDB
208:3D

U03AS MAIN [303] HDMI (HPD) (PE0492)

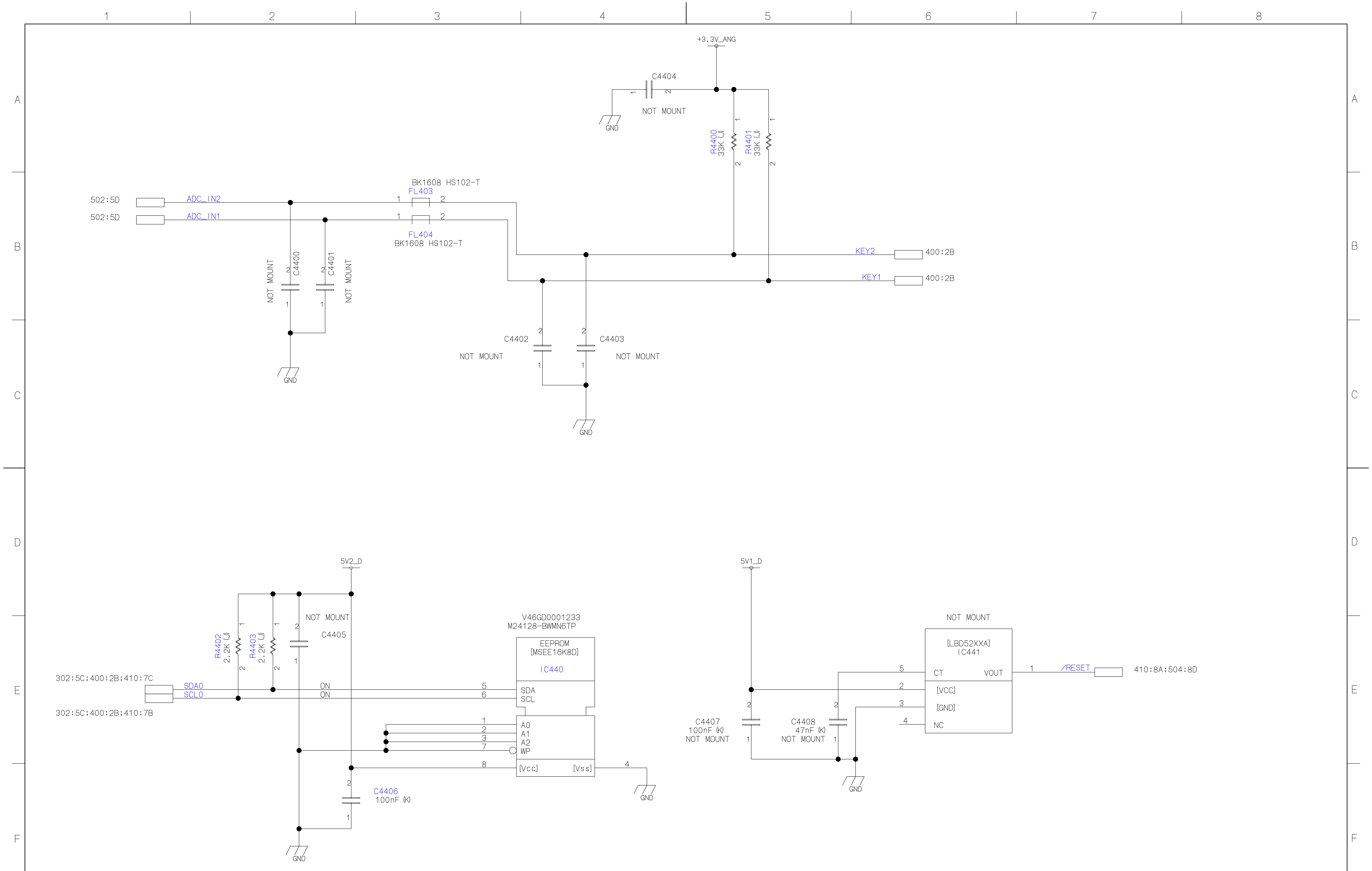


[V-U32652]
3/11
IC400
LBADC_IN1
LBADC_IN2
LBADC_IN3
LBADC_IN4
MSTR0_SDA
MSTR0_SCL
MSTR1_SDA
MSTR1_SCL
GPIO_95
GPIO_94
GPIO_93
GPIO_92
GPIO_91
GPIO_90
SPI_CSn
SPI_DI
SPI_DO
SPI_CLK
OCM_INT0
PWM0
PWM1
PWM2/OCM_INT1
PWM3/OCM_TIMER
OCM_UDI0
OCM_UDO0
OCM_UDI1
OCM_UDO1
W6
AA6
AB6
AC6
B16
C16
Y11
AA11
E18
D18
B17
C17
AC10
W9
Y10
AA10
AB10
W11
Y7
AC11
AB11
E16
D16
E17
D17
A17
A16
404:6B
KEY2
R4000 1K (J)
404:6B
KEY1
R4001 1K (J)
202:4B
8TH_E2
R4002 1K (J)
502:8D
AFT_IN1
R4003 1K (J)
302:5C:404:1E:410:7C
SDA0
ON
R4004 100 (J)
SCL0
ON
R4005 100 (J)
302:5C:404:1E:410:7B
R4006 100 (J)
R4007 100 (J)
5V2_D
R4008 3.3K (J)
R4009 3.3K (J)
C4002 27pF (J)
C4001 27pF (J)
GND
GND
500:2E:601:1B:607:1C:802:2C
SDA2
SCL2
500:2E:601:1A:607:1C:802:2C
604:2C:953:3D
AC_DETECT
R4010 10K (J)
R4011 1K (J)
R4012 1K (J)
R4046 1K (J)
+3.3V_I/O
902:1E
BL_CONTSW
R4013 4.7K (J)
802:2C
BUS_SW
902:5B
BL_STATUS
Reserve for AUDIO_SW2
201:8B
SCART_FB
R4043 1K (J)
33 (J) R4020
SPI_CSN 402:2C
R4021 0 (X)
SPI_DI 402:2B
R4022 0 (X)
SPI_DO 402:2C
R4023 0 (X)
SPI_CLK 402:2C
ON
TV_MUTE 201:8E:202:8E
EXT_MUTE 604:2E
PWM0は高速処理用（AUDIO Muteで使用可）
MUTE 604:2A
PWM_DIM 902:2A
ANALOG_DIM 902:2B
100 (J) R4026
G-pobe接続
ARXD 410:7C
ON
100 (J) R4027
ATXD 410:7B
ON
100 (J) R4028
BRXD 207:7D
ON
100 (J) R4029
UART_OUT 207:7C
ON
Digital UART接続
+3.3V_LPM
NOT MOUNT R4035
NOT MOUNT R4036
NOT MOUNT R4037
1K (J) R4038
600:7C I2S_DOUT1
600:7D I2S_DOUT2
600:7D I2S_WS_OUT
600:7D I2S_CLK_OUT
1K (J) R4039
1K (J) R4040
1K (J) R4041
NOT MOUNT R4042
GND
AC9 WDT を修正
R4037 KETSU
R4041 MOUNT
200:6F
DDC_SDA
200:6F
DDC_SCL
NOT MOUNT
R4032
R4033
NOT MOUNT
BOOT CONFIG
10K -> 1K に変更
Debug Conector
1
2
3
4
5
6
7
8
A
B
C
D
E
F

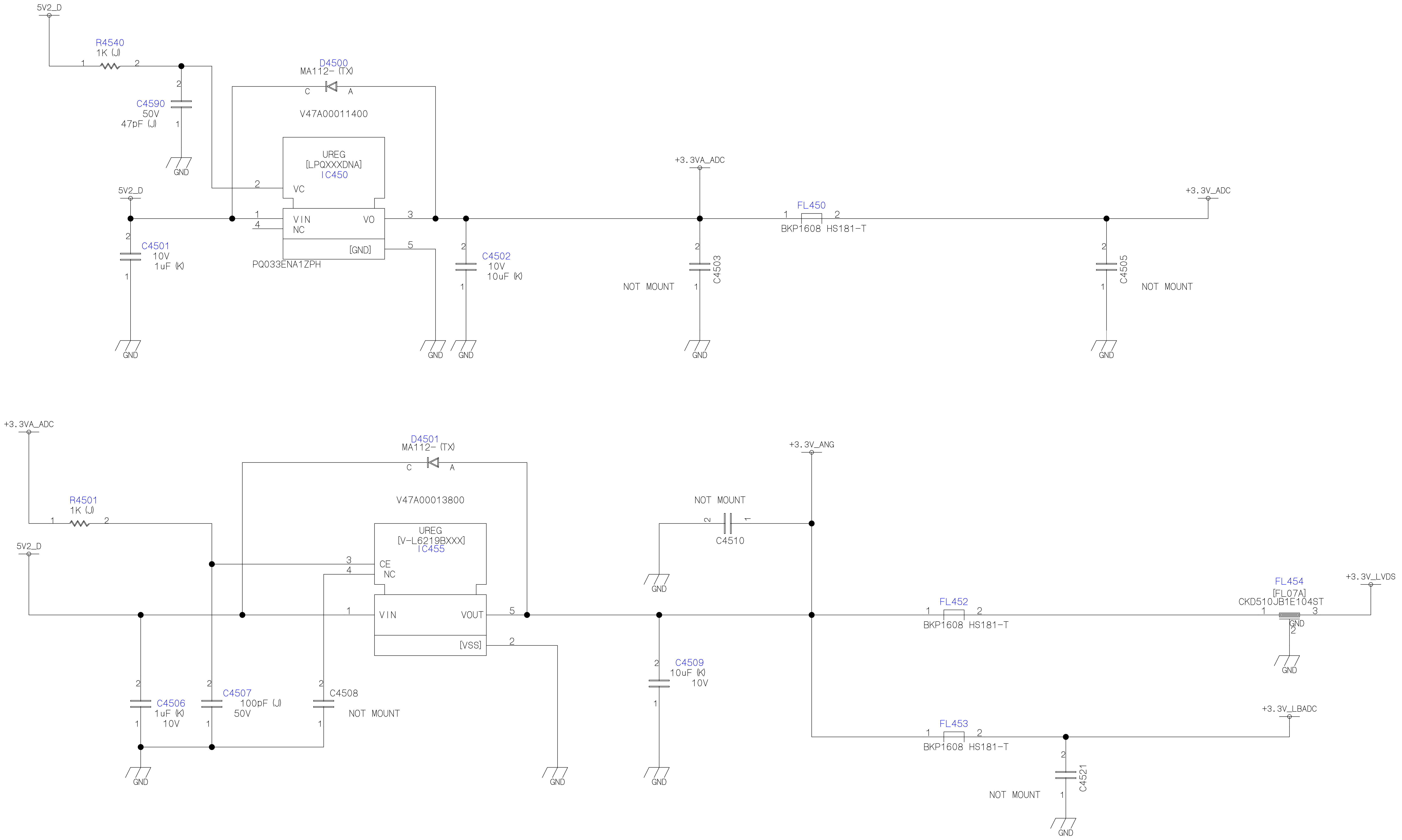
U03AS MAIN [400] MICRO I/O (PE0492)


+3.3V_I/O
IC420の近くに配置して下さい
BKP2125 HS221-T
FL421
1
2
V13A00001700
2
C4202
100nF (K)
10V
V03GD0000786
NOT MOUNT
1
GND
フラッシュ接続修正済み
V46A00021400
10K (J)
R4210
2
1
[V-M25DF]
IC420
400:7B
SPI_DI
400:7B
SPI_DO
400:7B
SPI_CLK
400:7B
SPI_CSN
ON
5
SI
SO
2
6
SCK
1
CS#
3
WP#
7
HOLD#
8
VCC
GND
4
AT25DF321-SU
NOT MOUNT
C4200
2
1
C4201
100nF (K)
10V
2
1
GND
+3.3V_LPM
NOT MOUNT
R4200
1K (J)
R4201
NOT MOUNT
R4202
10K (J)
R4206
10K (J)
R4207
1K (J)
R4203
NOT MOUNT
R4204
1K (J)
R4205
NOT MOUNT
R4208
NOT MOUNT
R4209
GND
GND
BOOT CONFIG
10K -> 1K 変更
AA10 修正

U03AS MAIN [402] FLASH MEMORY (PE0492)

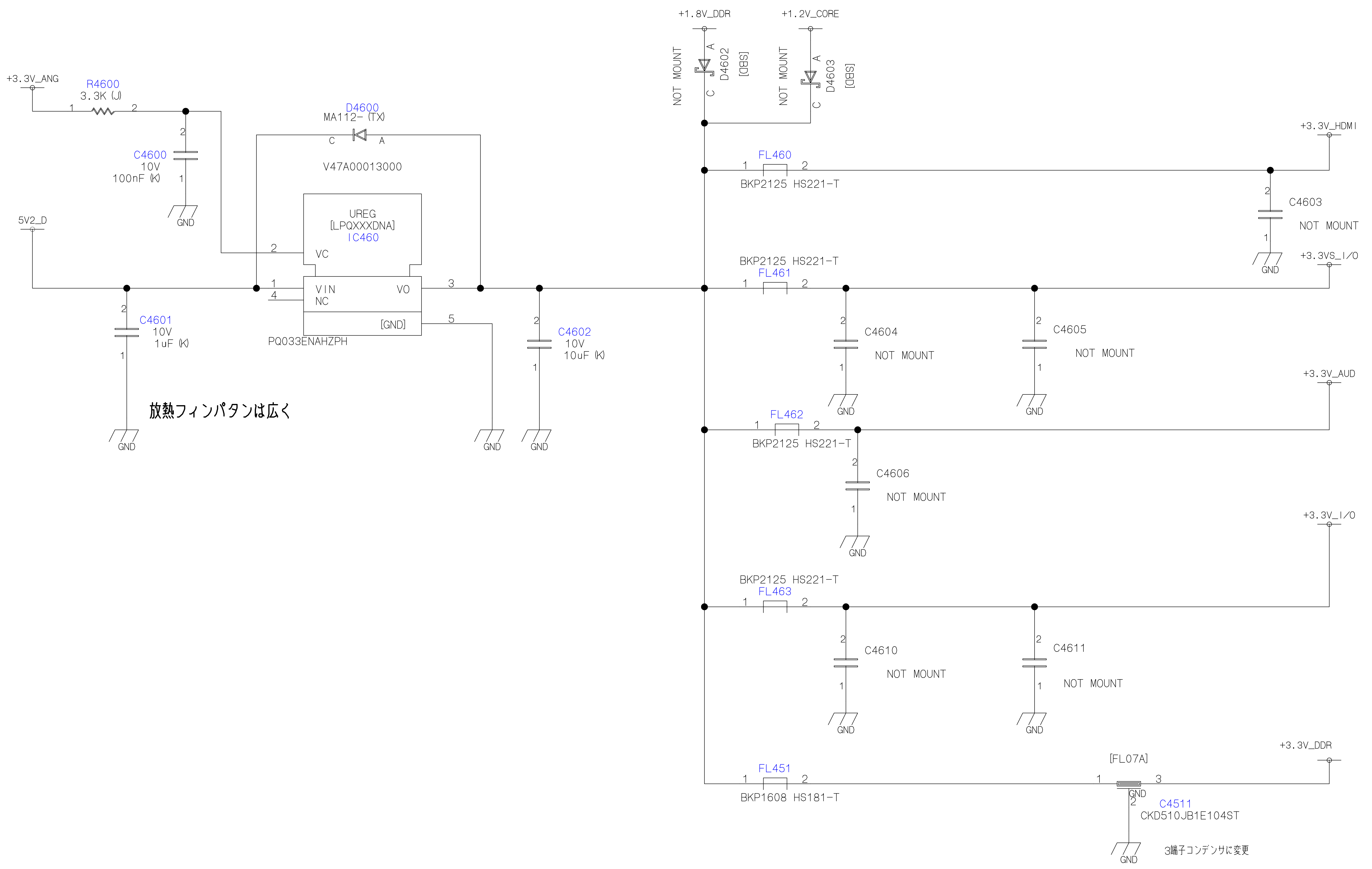

1
2
3
4
5
6
7
8
A
B
C
D
E
F
+3.3V_ANG
C4404
1
2
NOT MOUNT
GND
R4400
33K (J)
R4401
33K (J)
1
2
1
2
BK1608 HS102-T
FL403
502:5D
ADC_IN2
502:5D
ADC_IN1
1
2
1
2
FL404
BK1608 HS102-T
KEY2
400:2B
KEY1
400:2B
NOT MOUNT
C4400
C4401
NOT MOUNT
2
2
1
1
GND
C4402
NOT MOUNT
2
1
C4403
NOT MOUNT
2
1
GND
5V2_D
R4402
2.2K (J)
R4403
2.2K (J)
1
2
1
2
NOT MOUNT
C4405
2
1
302:5C:400:2B:410:7C
SDA0
SCL0
302:5C:400:2B:410:7B
ON
ON
V46GD0001233
M24128-BWMN6TP
EEPROM
[MSEE16K8D]
IC440
5
6
SDA
SCL
1
2
3
7
A0
A1
A2
WP
8
[Vcc]
[Vss]
4
GND
C4406
100nF (K)
2
1
GND
5V1_D
NOT MOUNT
[LBD52XXA]
IC441
5
CT
VOUT
1
/RESET
410:8A:504:8D
2
[VCC]
3
[GND]
4
NC
C4407
100nF (K)
NOT MOUNT
2
1
C4408
47nF (K)
NOT MOUNT
2
1
GND

U03AS MAIN [404] E2P ROM OTHER (PE0492)

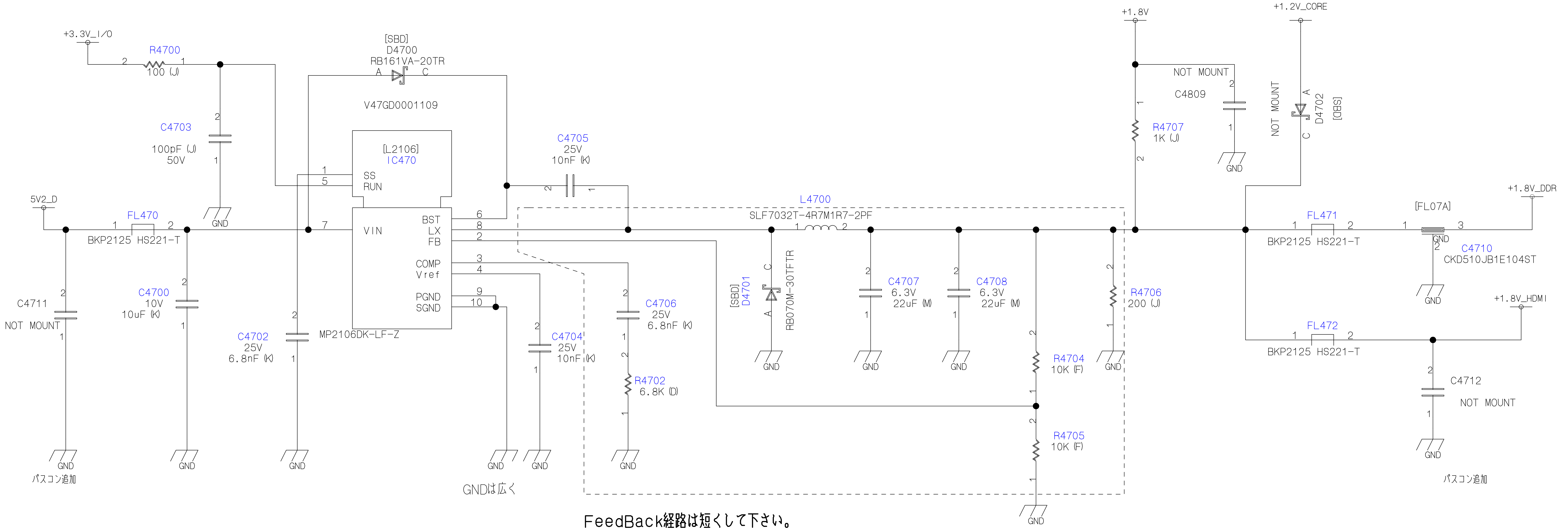


5V2_D
R4540
1K (J)
C4590
50V
47pF (J)
GND
D4500
MA112- (TX)
C
A
V47A00011400
UREG
[LPQXXXDNA]
IC450
VC
VIN
NC
VO
[GND]
PQ033ENA1ZPH
5V2_D
C4501
10V
1uF (K)
C4502
10V
10uF (K)
+3.3VA_ADC
NOT MOUNT
C4503
FL450
BKP1608 HS181-T
+3.3V_ADC
C4505
NOT MOUNT
+3.3VA_ADC
D4501
MA112- (TX)
V47A00013800
R4501
1K (J)
5V2_D
UREG
[V-L6219BXXX]
IC455
CE
NC
VIN
VOUT
[VSS]
C4506
1uF (K)
10V
C4507
100pF (J)
50V
C4508
NOT MOUNT
+3.3V_ANG
NOT MOUNT
C4510
C4509
10uF (K)
10V
FL452
BKP1608 HS181-T
FL454
[FL07A]
CKD510JB1E104ST
+3.3V_LVDS
FL453
BKP1608 HS181-T
+3.3V_LBADC
NOT MOUNT
C4521
GND

U03AS MAIN [405] Sequoia REG 1 (PE0492)


+3.3V_ANG
R4600
3.3K (J)
1
2
C4600
10V
100nF (K)
GND
5V2_D
C4601
10V
1uF (K)
GND
放熱フィンパタンは広く
D4600
MA112- (TX)
C
A
V47A00013000
UREG
[LPQXXXDNA]
IC460
VC
VIN
NC
VO
[GND]
PQ033ENAHZPH
3
5
C4602
10V
10uF (K)
GND
+1.8V_DDR
+1.2V_CORE
NOT MOUNT
D4602
[SBD]
NOT MOUNT
D4603
[SBD]
FL460
BKP2125 HS221-T
+3.3V_HDMI
C4603
NOT MOUNT
+3.3VS_I/O
BKP2125 HS221-T
FL461
C4604
NOT MOUNT
C4605
NOT MOUNT
+3.3V_AUD
FL462
BKP2125 HS221-T
C4606
NOT MOUNT
+3.3V_I/O
BKP2125 HS221-T
FL463
C4610
NOT MOUNT
C4611
NOT MOUNT
+3.3V_DDR
FL451
BKP1608 HS181-T
[FL07A]
C4511
CKD510JB1E104ST
3端子コンデンサに変更

U03AS MAIN [406] Sequoia REG 2 (PE0492)


+3.3V_I/O
R4700
100 (J)
C4703
100pF (J)
50V
[SBD]
D4700
RB161VA-20TR
A
C
V47GD0001109
[L2106]
IC470
SS
RUN
VIN
BST
LX
FB
COMP
Vref
PGND
SGND
MP2106DK-LF-Z
C4705
25V
10nF (K)
5V2_D
FL470
BKP2125 HS221-T
C4711
NOT MOUNT
C4700
10V
10uF (K)
C4702
25V
6.8nF (K)
C4704
25V
10nF (K)
C4706
25V
6.8nF (K)
R4702
6.8K (D)
L4700
SLF7032T-4R7M1R7-2PF
[SBD]
D4701
RB070M-30TFTR
C4707
6.3V
22uF (M)
C4708
6.3V
22uF (M)
R4704
10K (F)
R4705
10K (F)
R4706
200 (J)
+1.8V
R4707
1K (J)
NOT MOUNT
C4809
+1.2V_CORE
NOT MOUNT
D4702
[GBS]
+1.8V_DDR
FL471
BKP2125 HS221-T
[FL07A]
C4710
CKD510JB1E104ST
+1.8V_HDMI
FL472
BKP2125 HS221-T
C4712
NOT MOUNT
GND

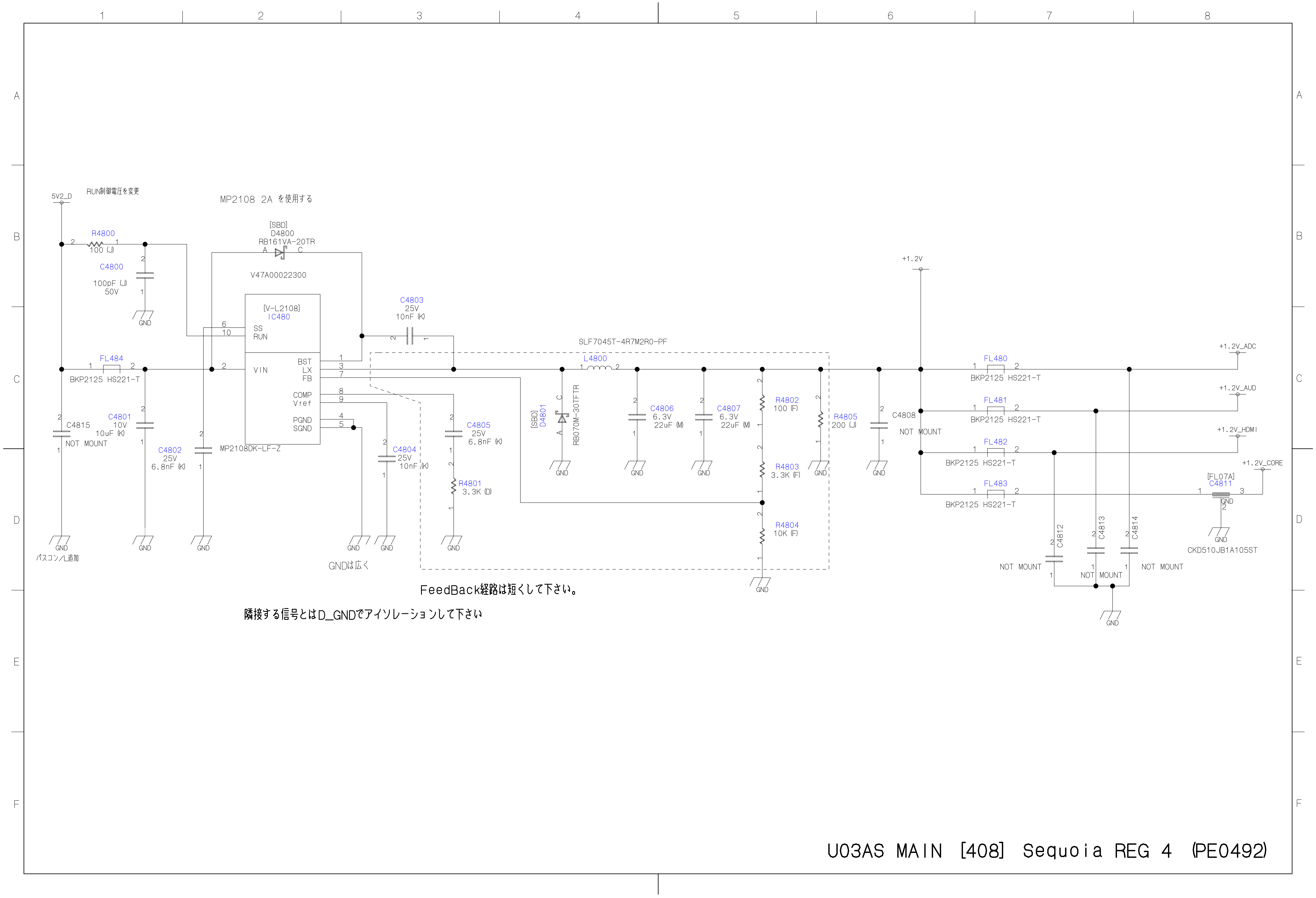
パスコン追加

GNDは広く

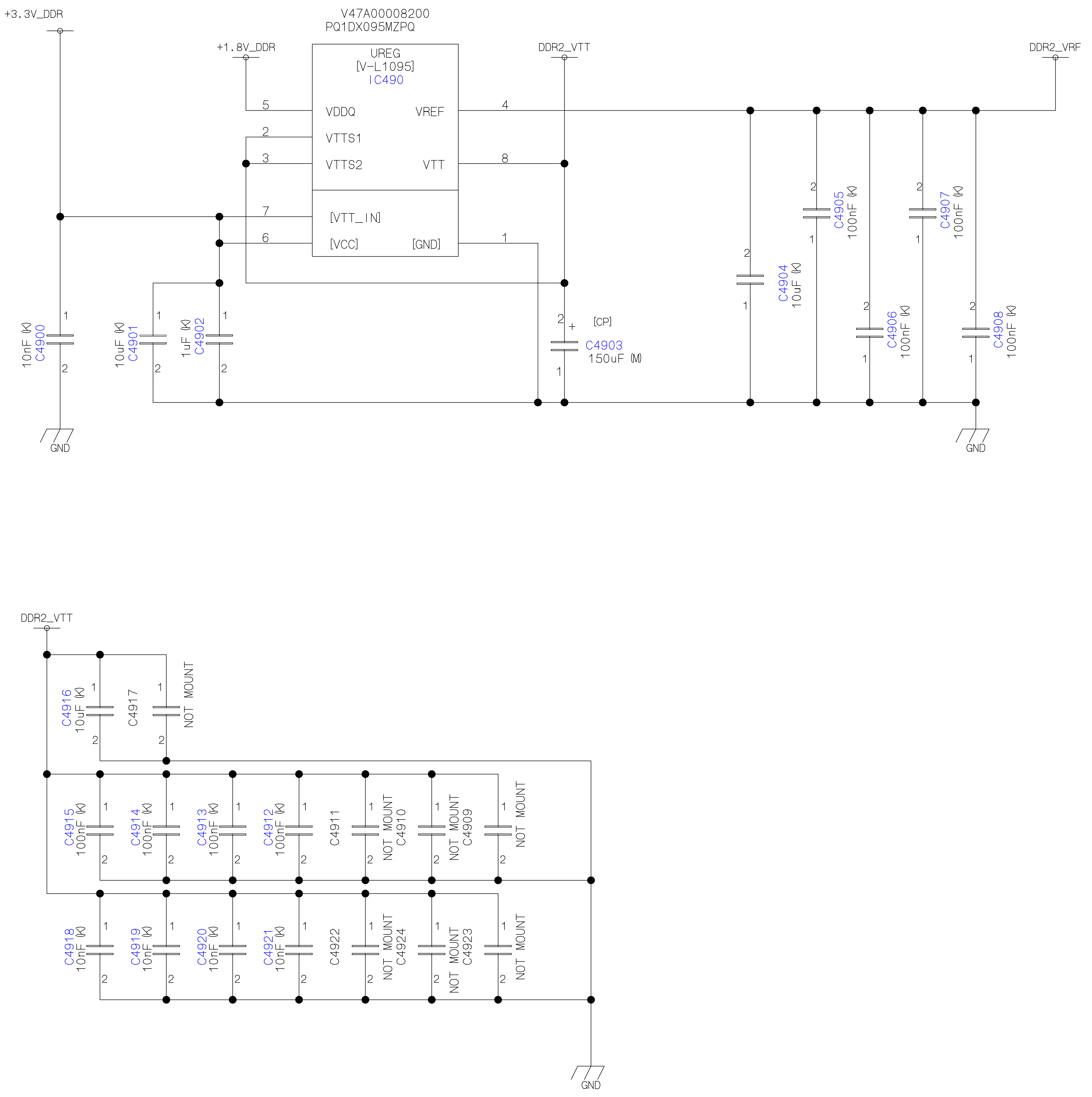
FeedBack経路は短くして下さい。

パスコン追加

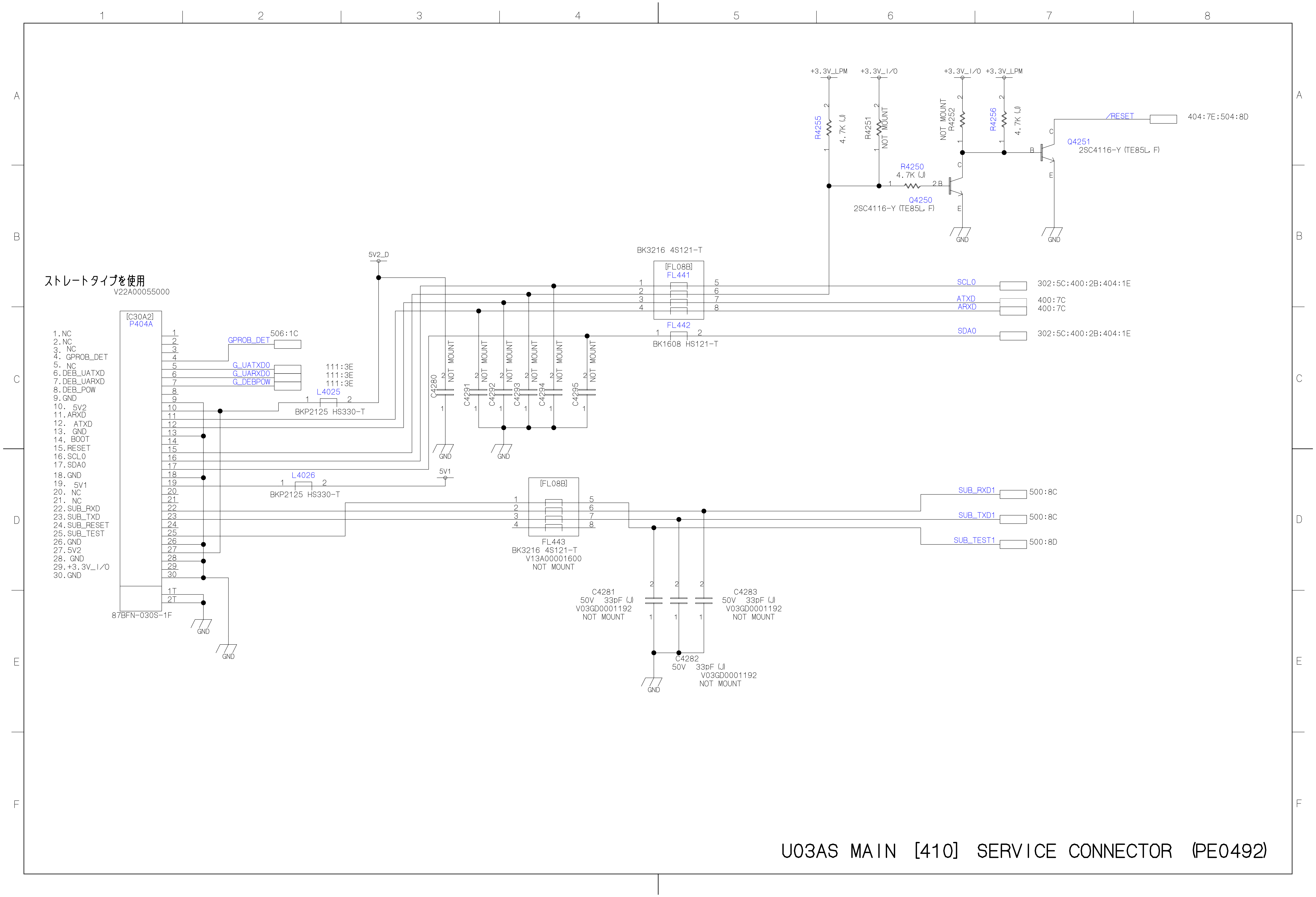
U03AS MAIN [407] Sequoia REG 3 (PE0492)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
5V2_D
RUN制御電圧を変更
MP2108 2A を使用する
[SBD]
D4800
RB161VA-20TR
A
C
V47A00022300
R4800
100 (J)
C4800
100pF (J)
50V
GND
[V-L2108]
IC480
SS
RUN
6
10
BST
LX
FB
VIN
COMP
Vref
PGND
SGND
MP2108DK-LF-Z
C4803
25V
10nF (K)
SLF7045T-4R7M2R0-PF
L4800
FL484
BKP2125 HS221-T
C4815
NOT MOUNT
C4801
10V
10uF (K)
C4802
25V
6.8nF (K)
C4805
25V
6.8nF (K)
C4804
25V
10nF (K)
R4801
3.3K (D)
[SBD]
D4801
RB070M-30TFTR
C4806
6.3V
22uF (M)
C4807
6.3V
22uF (M)
R4802
100 (F)
R4803
3.3K (F)
R4804
10K (F)
R4805
200 (J)
C4808
NOT MOUNT
+1.2V
FL480
BKP2125 HS221-T
FL481
BKP2125 HS221-T
FL482
BKP2125 HS221-T
FL483
BKP2125 HS221-T
+1.2V_ADC
+1.2V_AUD
+1.2V_HDMI
+1.2V_CORE
[FL07A]
C4811
CKD510JB1A105ST
C4812
C4813
C4814
NOT MOUNT
NOT MOUNT
NOT MOUNT
GND
パスコン/L追加
GNDは広く
FeedBack経路は短くして下さい。
隣接する信号とはD_GNDでアイソレーションして下さい

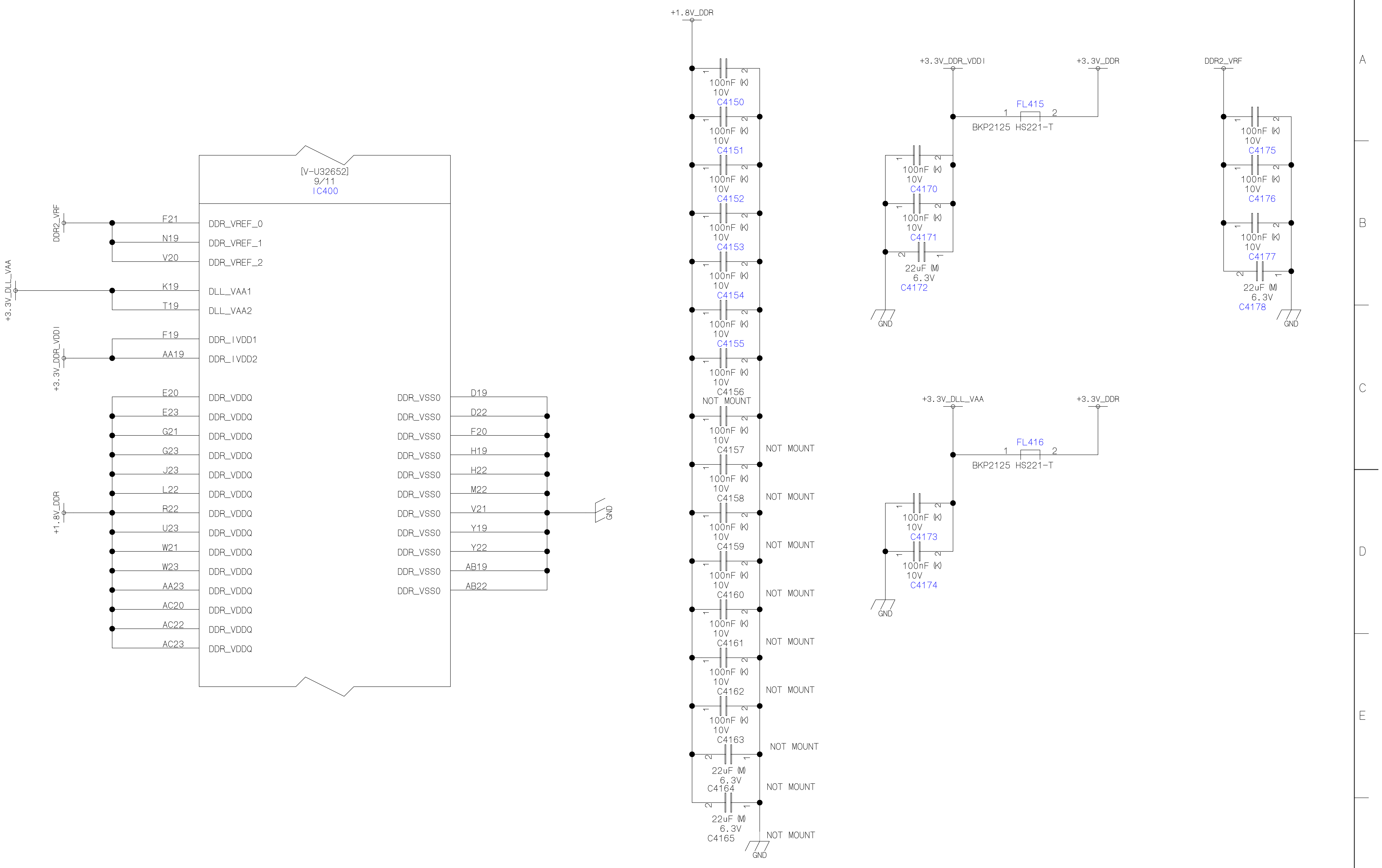
U03AS MAIN [408] Sequoia REG 4 (PE0492)


+3.3V_DDR
V47A00008200
PQ1DX095MZPQ
UREG
[V-L1095]
IC490
+1.8V_DDR
VDDQ
VTTS1
VTTS2
[VTT_IN]
[VCC]
VREF
VTT
[GND]
DDR2_VTT
DDR2_VRF
GND
10nF (K)
C4900
10uF (K)
C4901
1uF (K)
C4902
[CP]
C4903
150uF (M)
C4904
10uF (K)
C4905
100nF (K)
C4906
100nF (K)
C4907
100nF (K)
C4908
100nF (K)
DDR2_VTT
C4916
10uF (K)
C4917
NOT MOUNT
C4915
100nF (K)
C4914
100nF (K)
C4913
100nF (K)
C4912
100nF (K)
C4911
NOT MOUNT
C4910
NOT MOUNT
C4909
NOT MOUNT
C4918
10nF (K)
C4919
10nF (K)
C4920
10nF (K)
C4921
10nF (K)
C4922
NOT MOUNT
C4924
NOT MOUNT
C4923
NOT MOUNT
GND

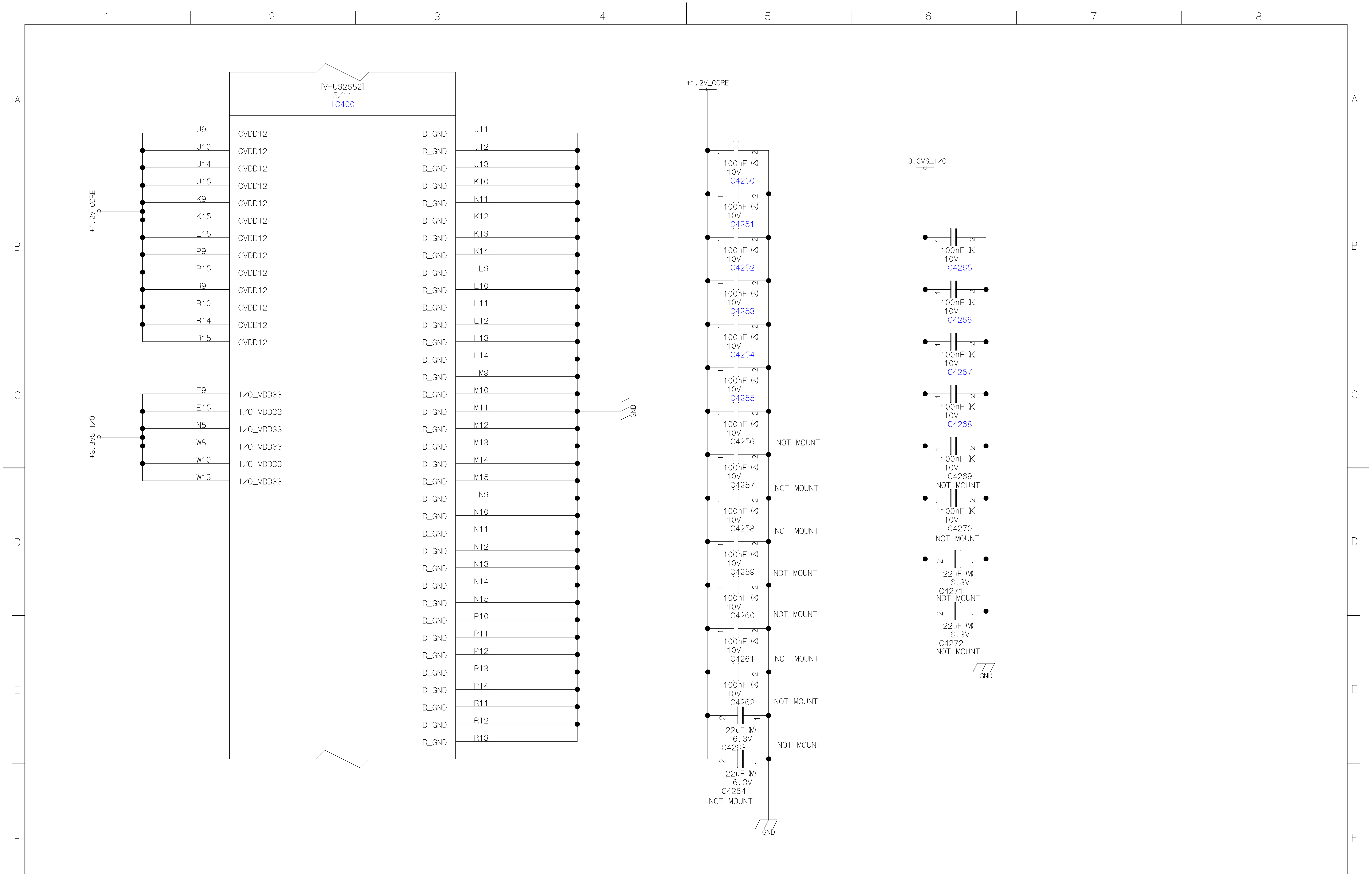
U03AS MAIN [409] DDR2 TERMINATE (PE0492)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
ストレートタイプを使用
V22A00055000
[C30A2]
P404A
1.NC
2.NC
3. NC
4. GPROB_DET
5. NC
6.DEB_UATXD
7.DEB_UARXD
8.DEB_POW
9.GND
10. 5V2
11.ARXD
12. ATXD
13. GND
14. BOOT
15.RESET
16.SCL0
17.SDA0
18.GND
19. 5V1
20. NC
21. NC
22.SUB_RXD
23.SUB_TXD
24.SUB_RESET
25.SUB_TEST
26.GND
27.5V2
28. GND
29.+3.3V_I/O
30.GND
1T
2T
87BFN-030S-1F
GND
GND
GPROB_DET
506:1C
G_UATXD0
G_UARXD0
G_DEBPOW
111:3E
111:3E
111:3E
L4025
BKP2125 HS330-T
5V2_D
L4026
BKP2125 HS330-T
5V1
GND
GND
C4280
C4291
C4292
C4293
C4294
C4295
NOT MOUNT
NOT MOUNT
NOT MOUNT
NOT MOUNT
NOT MOUNT
NOT MOUNT
BK3216 4S121-T
[FL08B]
FL441
FL442
BK1608 HS121-T
SCL0
ATXD
ARXD
SDA0
302:5C:400:2B:404:1E
400:7C
400:7C
302:5C:400:2B:404:1E
+3.3V_LPM
+3.3V_I/O
+3.3V_I/O
+3.3V_LPM
R4255
4.7K (J)
R4251
NOT MOUNT
NOT MOUNT
R4252
R4256
4.7K (J)
R4250
4.7K (J)
Q4250
2SC4116-Y (TE85L, F)
Q4251
2SC4116-Y (TE85L, F)
/RESET
404:7E:504:8D
GND
GND
[FL08B]
FL443
BK3216 4S121-T
V13A00001600
NOT MOUNT
SUB_RXD1
SUB_TXD1
SUB_TEST1
500:8C
500:8C
500:8D
C4281
50V 33pF (J)
V03GD0001192
NOT MOUNT
C4283
50V 33pF (J)
V03GD0001192
NOT MOUNT
C4282
50V 33pF (J)
V03GD0001192
NOT MOUNT
GND

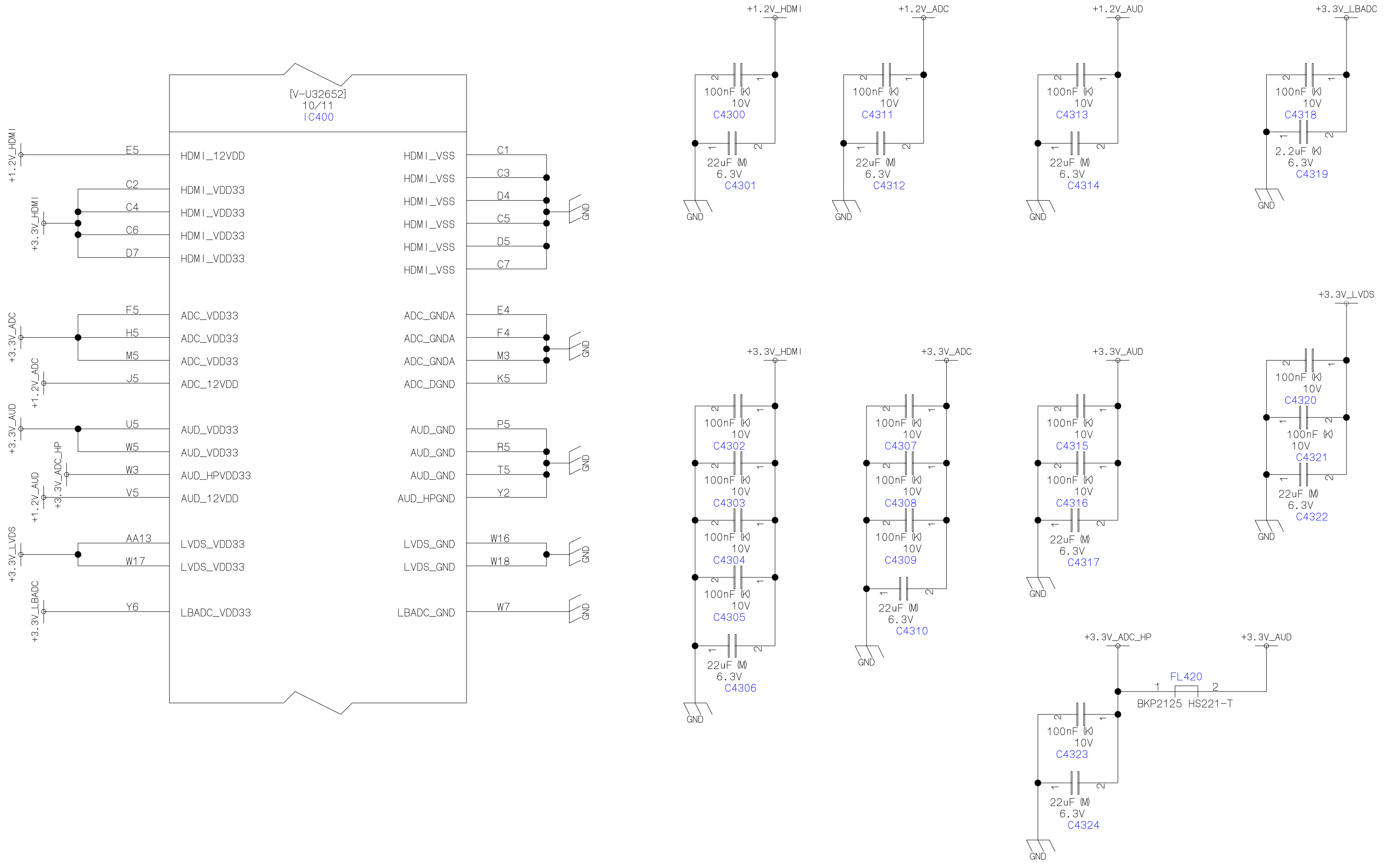
U03AS MAIN [410] SERVICE CONNECTOR (PE0492)


[V-U32652]
9/11
IC400
DDR2_VRF
+3.3V_DLL_VAA
+3.3V_DDR_VDDI
+1.8V_DDR
F21
N19
V20
K19
T19
F19
AA19
E20
E23
G21
G23
J23
L22
R22
U23
W21
W23
AA23
AC20
AC22
AC23
DDR_VREF_0
DDR_VREF_1
DDR_VREF_2
DLL_VAA1
DLL_VAA2
DDR_IVDD1
DDR_IVDD2
DDR_VDDQ
DDR_VSSQ
D19
D22
F20
H19
H22
M22
V21
Y19
Y22
AB19
AB22
GND
100nF (K)
10V
C4150
C4151
C4152
C4153
C4154
C4155
C4156
NOT MOUNT
C4157
C4158
C4159
C4160
C4161
C4162
C4163
22uF (M)
6.3V
C4164
C4165
+3.3V_DDR
FL415
BKP2125 HS221-T
C4170
C4171
C4172
C4175
C4176
C4177
C4178
FL416
C4173
C4174
1
2

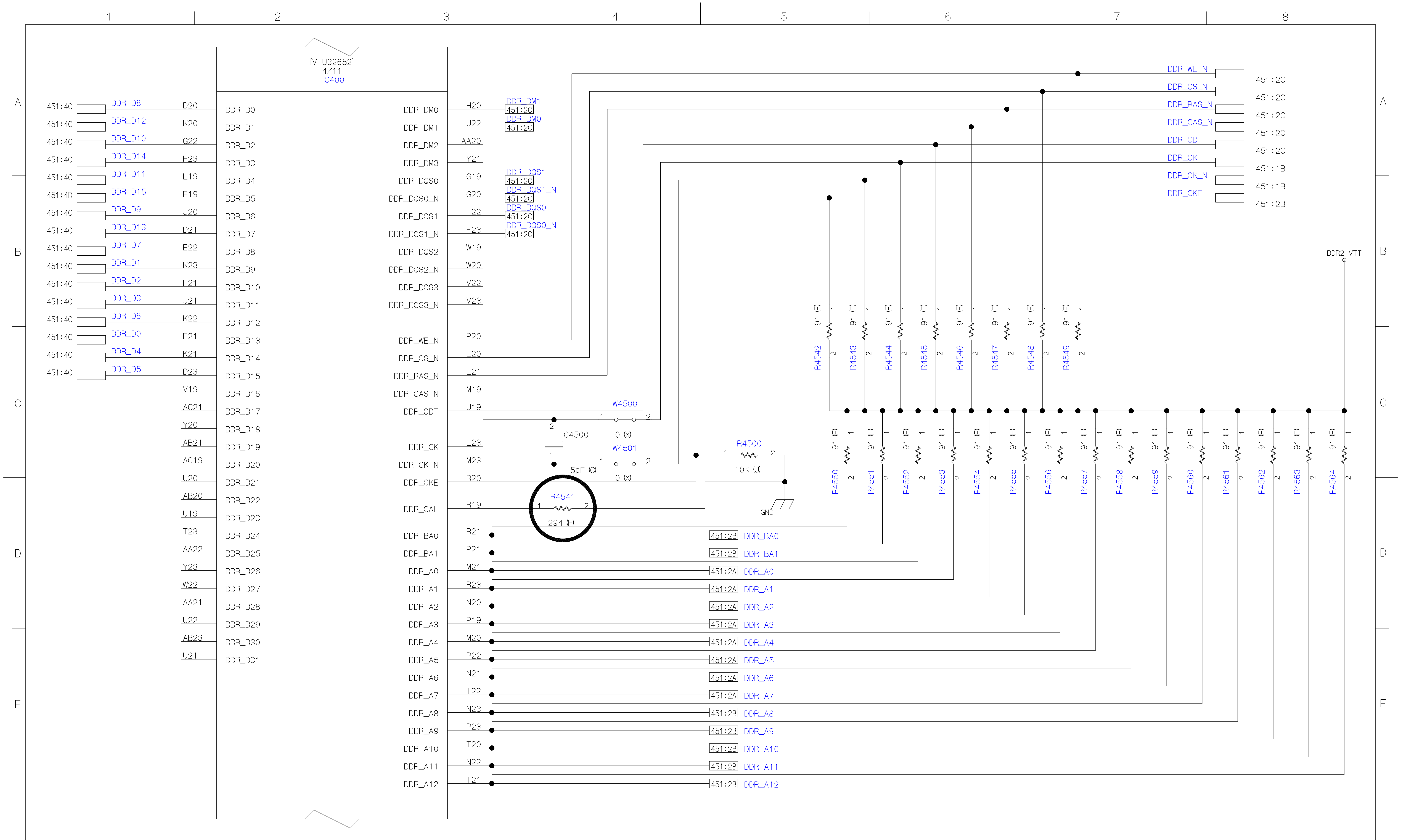
U03AS MAIN [411] Sequoia POWER_1 (PE0492)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
[V-U32652]
5/11
IC400
+1.2V_CORE
J9 CVDD12
J10 CVDD12
J14 CVDD12
J15 CVDD12
K9 CVDD12
K15 CVDD12
L15 CVDD12
P9 CVDD12
P15 CVDD12
R9 CVDD12
R10 CVDD12
R14 CVDD12
R15 CVDD12
+3.3VS_I/O
E9 I/O_VDD33
E15 I/O_VDD33
N5 I/O_VDD33
W8 I/O_VDD33
W10 I/O_VDD33
W13 I/O_VDD33
D_GND J11
D_GND J12
D_GND J13
D_GND K10
D_GND K11
D_GND K12
D_GND K13
D_GND K14
D_GND L9
D_GND L10
D_GND L11
D_GND L12
D_GND L13
D_GND L14
D_GND M9
D_GND M10
D_GND M11
D_GND M12
D_GND M13
D_GND M14
D_GND M15
D_GND N9
D_GND N10
D_GND N11
D_GND N12
D_GND N13
D_GND N14
D_GND N15
D_GND P10
D_GND P11
D_GND P12
D_GND P13
D_GND P14
D_GND R11
D_GND R12
D_GND R13
GND
+1.2V_CORE
100nF (K) 10V C4250
100nF (K) 10V C4251
100nF (K) 10V C4252
100nF (K) 10V C4253
100nF (K) 10V C4254
100nF (K) 10V C4255
100nF (K) 10V C4256 NOT MOUNT
100nF (K) 10V C4257 NOT MOUNT
100nF (K) 10V C4258 NOT MOUNT
100nF (K) 10V C4259 NOT MOUNT
100nF (K) 10V C4260 NOT MOUNT
100nF (K) 10V C4261 NOT MOUNT
100nF (K) 10V C4262 NOT MOUNT
22uF (M) 6.3V C4263 NOT MOUNT
22uF (M) 6.3V C4264 NOT MOUNT
GND
+3.3VS_I/O
100nF (K) 10V C4265
100nF (K) 10V C4266
100nF (K) 10V C4267
100nF (K) 10V C4268
100nF (K) 10V C4269 NOT MOUNT
100nF (K) 10V C4270 NOT MOUNT
22uF (M) 6.3V C4271 NOT MOUNT
22uF (M) 6.3V C4272 NOT MOUNT
GND

U03AS MAIN [412] Sequoia POWER_2 (PE0492)

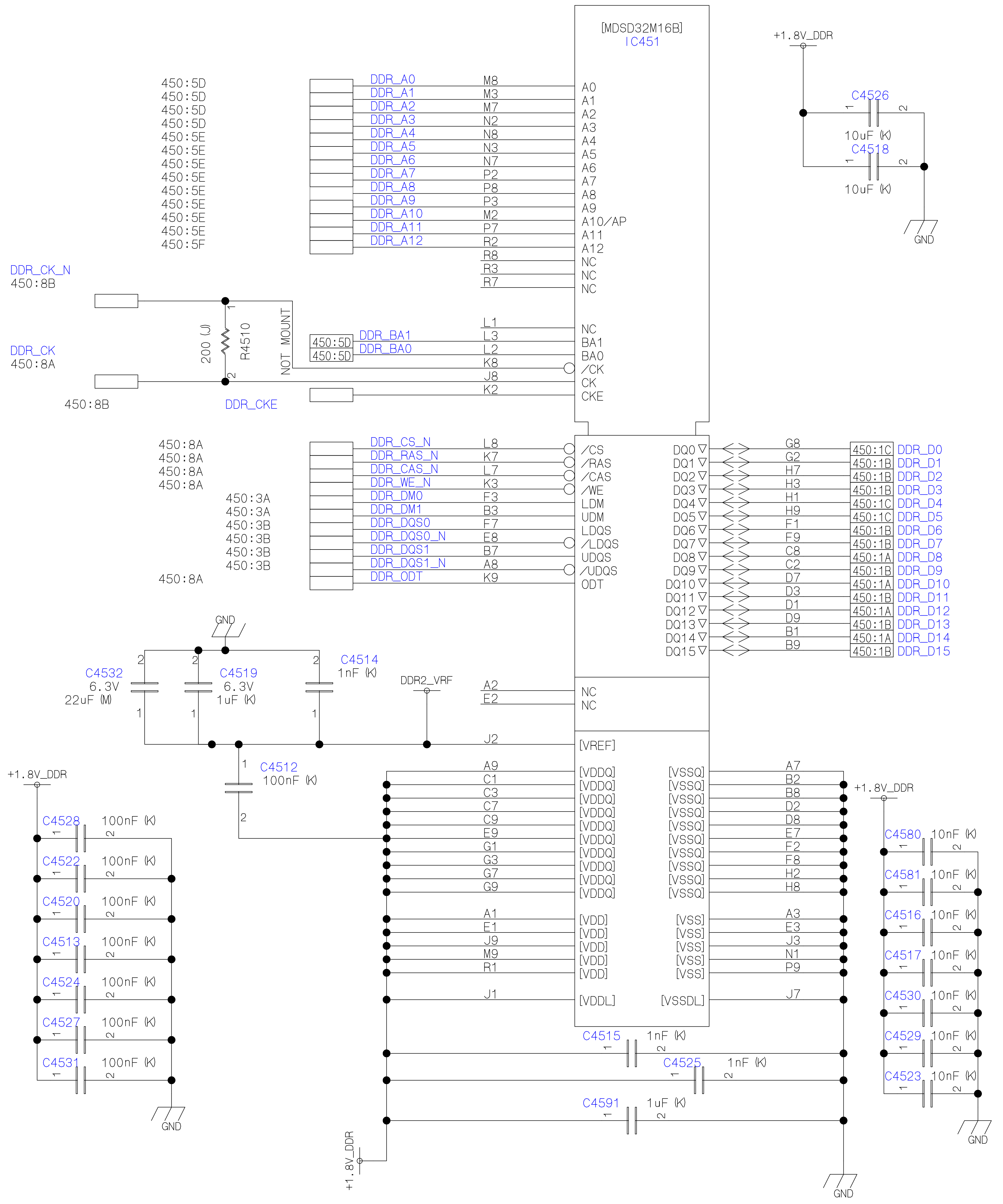

[V-U32652]
10/11
IC400
+1.2V_HDMI
E5 HDMI_12VDD
+3.3V_HDMI
C2 HDMI_VDD33
C4 HDMI_VDD33
C6 HDMI_VDD33
D7 HDMI_VDD33
+3.3V_ADC
F5 ADC_VDD33
H5 ADC_VDD33
M5 ADC_VDD33
+1.2V_ADC
J5 ADC_12VDD
+3.3V_AUD
U5 AUD_VDD33
W5 AUD_VDD33
+3.3V_ADC_HP
W3 AUD_HPVDD33
+1.2V_AUD
V5 AUD_12VDD
+3.3V_LVDS
AA13 LVDS_VDD33
W17 LVDS_VDD33
+3.3V_LBADC
Y6 LBADC_VDD33
HDMI_VSS C1
HDMI_VSS C3
HDMI_VSS D4
HDMI_VSS C5
HDMI_VSS D5
HDMI_VSS C7
ADC_GNDA E4
ADC_GNDA F4
ADC_GNDA M3
ADC_DGND K5
AUD_GND P5
AUD_GND R5
AUD_GND T5
AUD_HPGND Y2
LVDS_GND W16
LVDS_GND W18
LBADC_GND W7
GND
+1.2V_HDMI
100nF (K) 10V C4300
22uF (M) 6.3V C4301
+1.2V_ADC
100nF (K) 10V C4311
22uF (M) 6.3V C4312
+1.2V_AUD
100nF (K) 10V C4313
22uF (M) 6.3V C4314
+3.3V_LBADC
100nF (K) 10V C4318
2.2uF (K) 6.3V C4319
+3.3V_LVDS
100nF (K) 10V C4320
100nF (K) 10V C4321
22uF (M) 6.3V C4322
+3.3V_HDMI
100nF (K) 10V C4302
100nF (K) 10V C4303
100nF (K) 10V C4304
100nF (K) 10V C4305
22uF (M) 6.3V C4306
+3.3V_ADC
100nF (K) 10V C4307
100nF (K) 10V C4308
100nF (K) 10V C4309
22uF (M) 6.3V C4310
+3.3V_AUD
100nF (K) 10V C4315
100nF (K) 10V C4316
22uF (M) 6.3V C4317
+3.3V_ADC_HP
+3.3V_AUD
FL420
1 2
BKP2125 HS221-T
100nF (K) 10V C4323
22uF (M) 6.3V C4324
GND
1 2 3 4 5 6 7 8
A B C D E F

U03AS MAIN [413] Sequoia POWER_3 (PE0492)

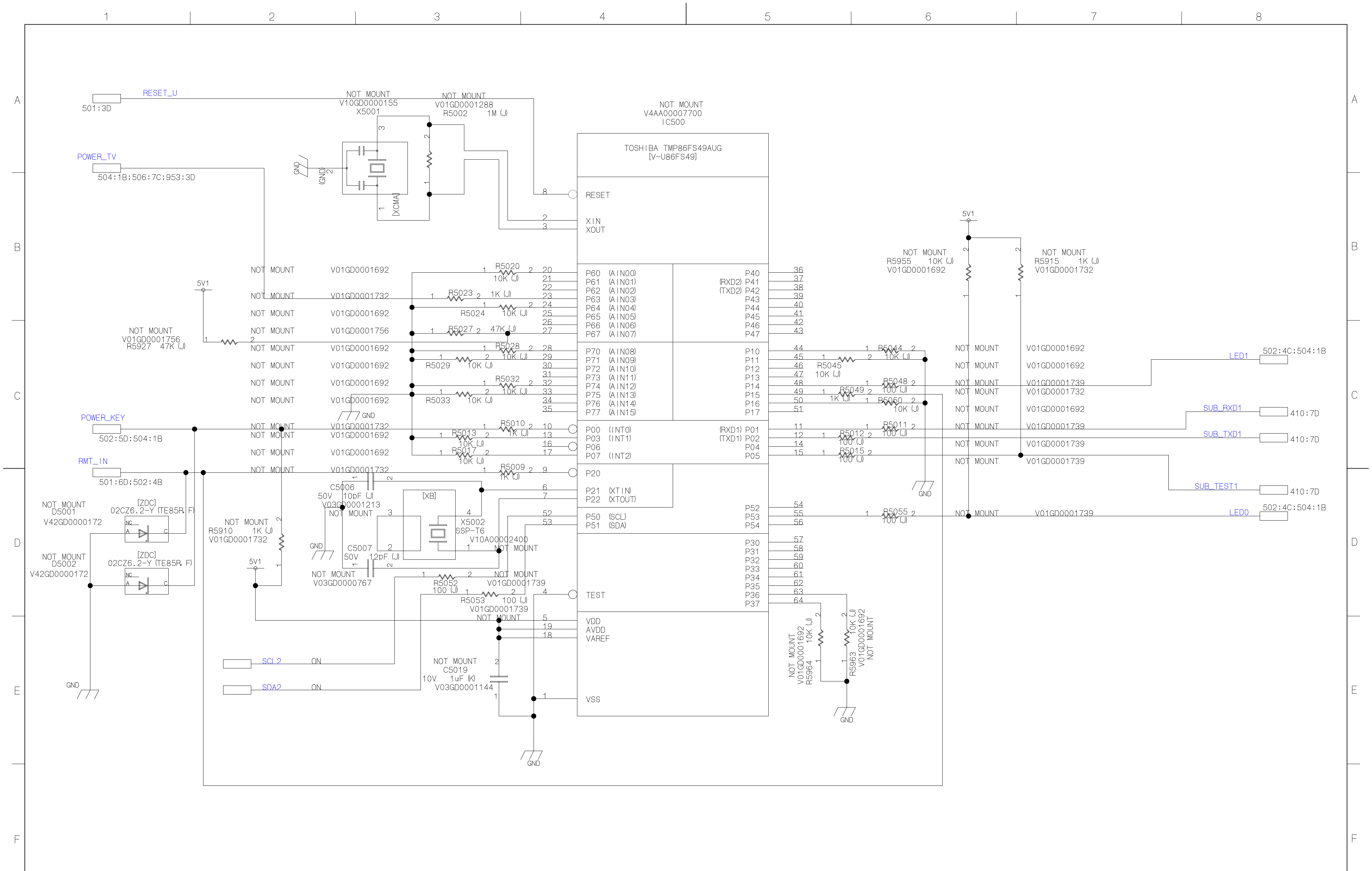


1
2
3
4
5
6
7
8
A
B
C
D
E
F
[V-U32652]
4/11
IC400
451:4C DDR_D8 D20 DDR_D0
451:4C DDR_D12 K20 DDR_D1
451:4C DDR_D10 G22 DDR_D2
451:4C DDR_D14 H23 DDR_D3
451:4C DDR_D11 L19 DDR_D4
451:4D DDR_D15 E19 DDR_D5
451:4C DDR_D9 J20 DDR_D6
451:4C DDR_D13 D21 DDR_D7
451:4C DDR_D7 E22 DDR_D8
451:4C DDR_D1 K23 DDR_D9
451:4C DDR_D2 H21 DDR_D10
451:4C DDR_D3 J21 DDR_D11
451:4C DDR_D6 K22 DDR_D12
451:4C DDR_D0 E21 DDR_D13
451:4C DDR_D4 K21 DDR_D14
451:4C DDR_D5 D23 DDR_D15
V19 DDR_D16
AC21 DDR_D17
Y20 DDR_D18
AB21 DDR_D19
AC19 DDR_D20
U20 DDR_D21
AB20 DDR_D22
U19 DDR_D23
T23 DDR_D24
AA22 DDR_D25
Y23 DDR_D26
W22 DDR_D27
AA21 DDR_D28
U22 DDR_D29
AB23 DDR_D30
U21 DDR_D31
DDR_DM0 H20 DDR_DM1 451:2C
DDR_DM1 J22 DDR_DM0 451:2C
DDR_DM2 AA20
DDR_DM3 Y21
DDR_DQS0 G19 DDR_DQS1 451:2C
DDR_DQS0_N G20 DDR_DQS1_N 451:2C
DDR_DQS1 F22 DDR_DQS0 451:2C
DDR_DQS1_N F23 DDR_DQS0_N 451:2C
DDR_DQS2 W19
DDR_DQS2_N W20
DDR_DQS3 V22
DDR_DQS3_N V23
DDR_WE_N P20
DDR_CS_N L20
DDR_RAS_N L21
DDR_CAS_N M19
DDR_ODT J19
DDR_CK L23
DDR_CK_N M23
DDR_CKE R20
DDR_CAL R19
DDR_BA0 R21
DDR_BA1 P21
DDR_A0 M21
DDR_A1 R23
DDR_A2 N20
DDR_A3 P19
DDR_A4 M20
DDR_A5 P22
DDR_A6 N21
DDR_A7 T22
DDR_A8 N23
DDR_A9 P23
DDR_A10 T20
DDR_A11 N22
DDR_A12 T21
DDR_WE_N 451:2C
DDR_CS_N 451:2C
DDR_RAS_N 451:2C
DDR_CAS_N 451:2C
DDR_ODT 451:2C
DDR_CK 451:1B
DDR_CK_N 451:1B
DDR_CKE 451:2B
DDR2_VTT
W4500 0 (X)
C4500 5pF (C)
W4501 0 (X)
R4500 10K (J)
GND
R4541 294 (F)
R4542 91 (F)
R4543 91 (F)
R4544 91 (F)
R4545 91 (F)
R4546 91 (F)
R4547 91 (F)
R4548 91 (F)
R4549 91 (F)
R4550 91 (F)
R4551 91 (F)
R4552 91 (F)
R4553 91 (F)
R4554 91 (F)
R4555 91 (F)
R4556 91 (F)
R4557 91 (F)
R4558 91 (F)
R4559 91 (F)
R4560 91 (F)
R4561 91 (F)
R4562 91 (F)
R4563 91 (F)
R4564 91 (F)
451:2B DDR_BA0
451:2B DDR_BA1
451:2A DDR_A0
451:2A DDR_A1
451:2A DDR_A2
451:2A DDR_A3
451:2A DDR_A4
451:2A DDR_A5
451:2A DDR_A6
451:2A DDR_A7
451:2B DDR_A8
451:2B DDR_A9
451:2B DDR_A10
451:2B DDR_A11
451:2B DDR_A12

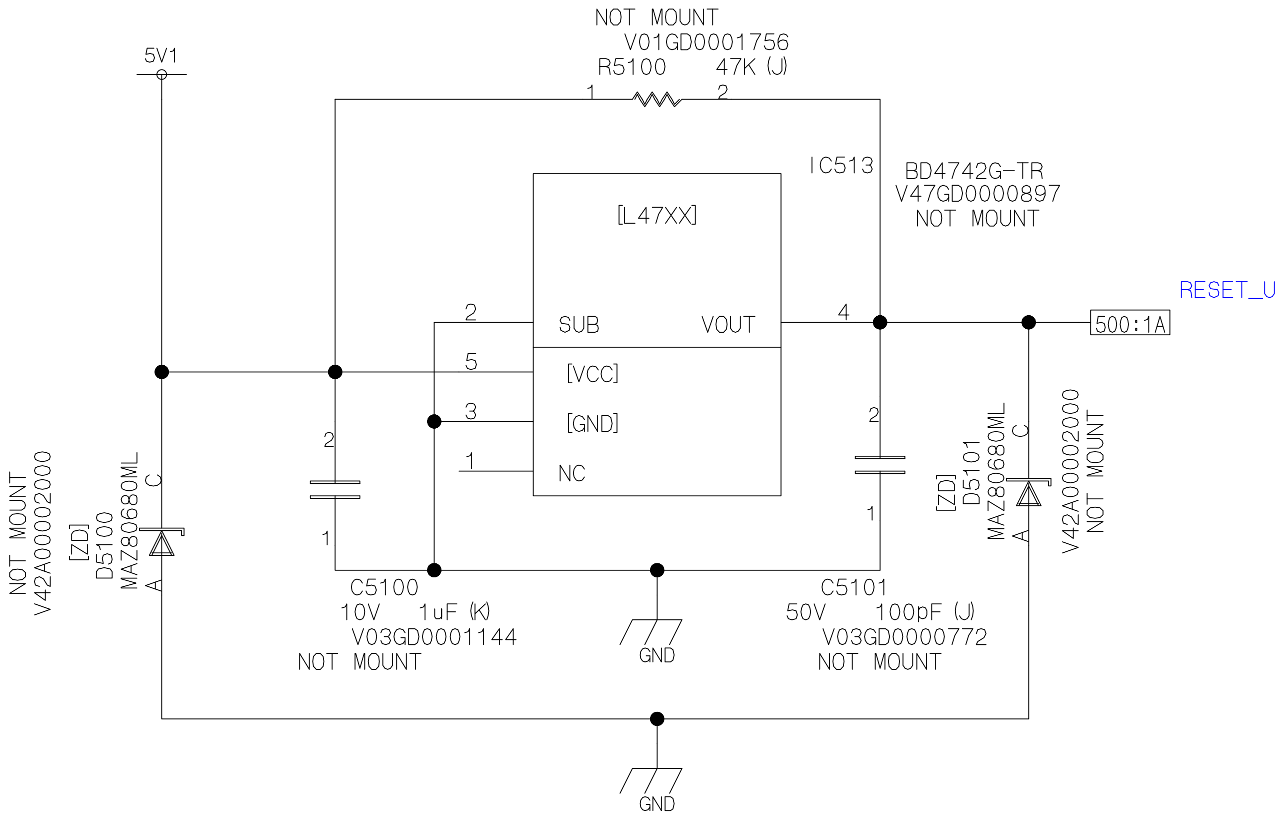
U03AS MAIN [450] Sequoia DDR I/F (PE0492)

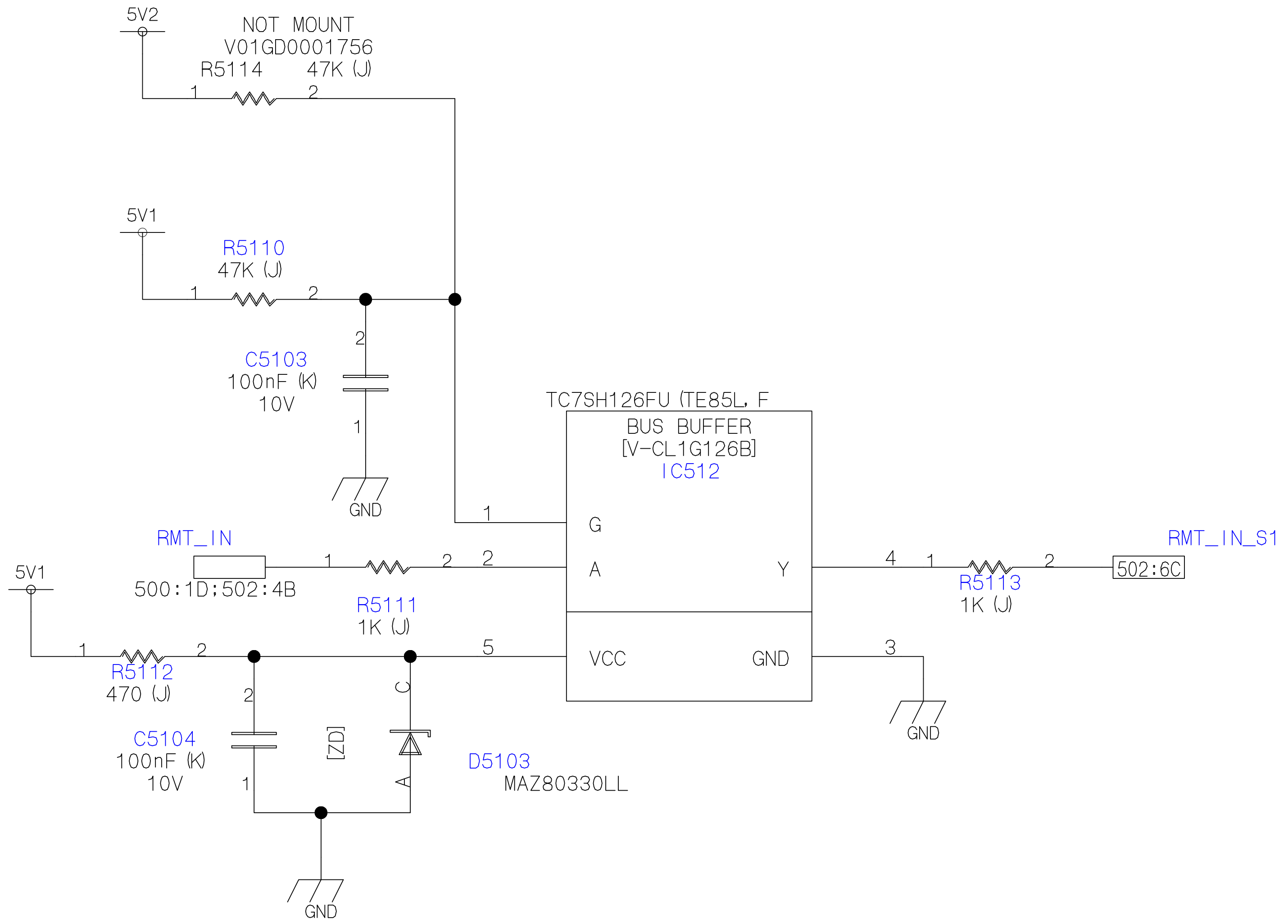

[MDSD32M16B]
IC451
+1.8V_DDR
C4526
10uF (K)
C4518
10uF (K)
GND
450:5D
450:5D
450:5D
450:5D
450:5E
450:5E
450:5E
450:5E
450:5E
450:5E
450:5E
450:5E
450:5F
DDR_A0
DDR_A1
DDR_A2
DDR_A3
DDR_A4
DDR_A5
DDR_A6
DDR_A7
DDR_A8
DDR_A9
DDR_A10
DDR_A11
DDR_A12
M8
M3
M7
N2
N8
N3
N7
P2
P8
P3
M2
P7
R2
R8
R3
R7
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10/AP
A11
A12
NC
NC
NC
DDR_CK_N
450:8B
DDR_CK
450:8A
200 (J)
R4510
NOT MOUNT
450:5D
450:5D
DDR_BA1
DDR_BA0
L1
L3
L2
K8
J8
K2
NC
BA1
BA0
/CK
CK
CKE
450:8B
DDR_CKE
450:8A
450:8A
450:8A
450:8A
450:3A
450:3A
450:3B
450:3B
450:3B
450:3B
450:8A
DDR_CS_N
DDR_RAS_N
DDR_CAS_N
DDR_WE_N
DDR_DM0
DDR_DM1
DDR_DQS0
DDR_DQS0_N
DDR_DQS1
DDR_DQS1_N
DDR_ODT
L8
K7
L7
K3
F3
B3
F7
E8
B7
A8
K9
/CS
/RAS
/CAS
/WE
LDM
UDM
LDQS
/LDQS
UDQS
/UDQS
ODT
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
G8
G2
H7
H3
H1
H9
F1
F9
C8
C2
D7
D3
D1
D9
B1
B9
450:1C DDR_D0
450:1B DDR_D1
450:1B DDR_D2
450:1B DDR_D3
450:1C DDR_D4
450:1C DDR_D5
450:1B DDR_D6
450:1B DDR_D7
450:1A DDR_D8
450:1B DDR_D9
450:1A DDR_D10
450:1B DDR_D11
450:1A DDR_D12
450:1B DDR_D13
450:1A DDR_D14
450:1B DDR_D15
GND
C4532
6.3V
22uF (M)
C4519
6.3V
1uF (K)
C4514
1nF (K)
DDR2_VRF
A2
E2
NC
NC
J2
[VREF]
C4512
100nF (K)
+1.8V_DDR
A9
C1
C3
C7
C9
E9
G1
G3
G7
G9
[VDDQ]
[VSSQ]
A7
B2
B8
D2
D8
E7
F2
F8
H2
H8
A1
E1
J9
M9
R1
[VDD]
[VSS]
A3
E3
J3
N1
P9
J1
[VDDL]
[VSSDL]
J7
C4528 100nF (K)
C4522 100nF (K)
C4520 100nF (K)
C4513 100nF (K)
C4524 100nF (K)
C4527 100nF (K)
C4531 100nF (K)
GND
C4515 1nF (K)
C4525 1nF (K)
C4591 1uF (K)
+1.8V_DDR
GND
+1.8V_DDR
C4580 10nF (K)
C4581 10nF (K)
C4516 10nF (K)
C4517 10nF (K)
C4530 10nF (K)
C4529 10nF (K)
C4523 10nF (K)
GND

U03AS MAIN [451] DDR2 SDRAM (PE0492)

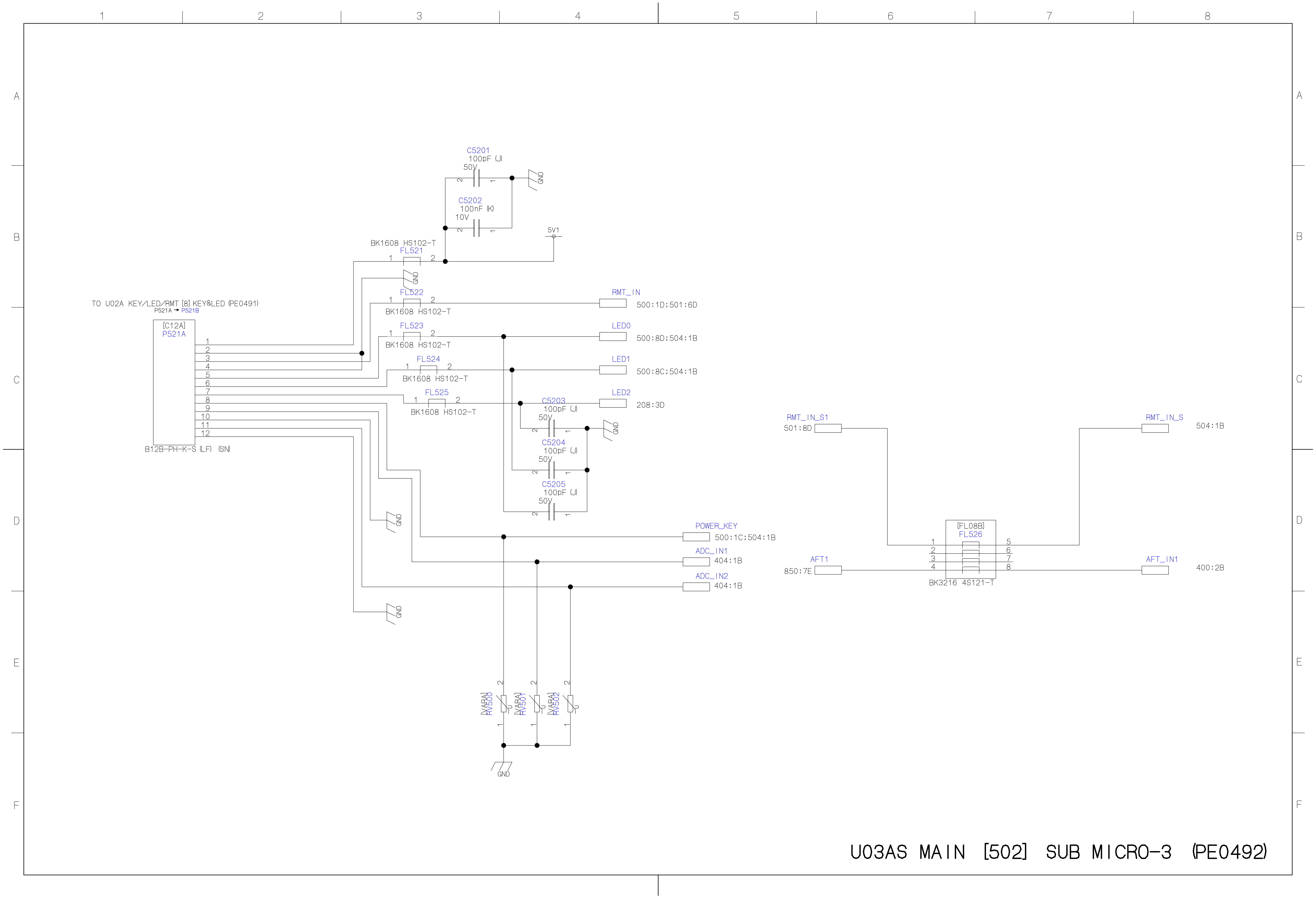

1
2
3
4
5
6
7
8
A
B
C
D
E
F
RESET_U
501:3D
POWER_TV
504:1B:506:7C:953:3D
NOT MOUNT
V10GD0000155
X5001
[GND]
[XCMA]
GND
NOT MOUNT
V01GD0001288
R5002 1M (J)
NOT MOUNT
V4AA00007700
IC500
TOSHIBA TMP86FS49AUG
[V-U86FS49]
RESET
XIN
XOUT
P60 (AIN00)
P61 (AIN01)
P62 (AIN02)
P63 (AIN03)
P64 (AIN04)
P65 (AIN05)
P66 (AIN06)
P67 (AIN07)
P70 (AIN08)
P71 (AIN09)
P72 (AIN10)
P73 (AIN11)
P74 (AIN12)
P75 (AIN13)
P76 (AIN14)
P77 (AIN15)
P00 (INT0)
P03 (INT1)
P06
P07 (INT2)
P20
P21 (XTIN)
P22 (XTOUT)
P50 (SCL)
P51 (SDA)
TEST
VDD
AVDD
VAREF
VSS
P40
(RXD2) P41
(TXD2) P42
P43
P44
P45
P46
P47
P10
P11
P12
P13
P14
P15
P16
P17
(RXD1) P01
(TXD1) P02
P04
P05
P52
P53
P54
P30
P31
P32
P33
P34
P35
P36
P37
NOT MOUNT V01GD0001692 R5020 10K (J)
NOT MOUNT V01GD0001732 R5023 1K (J)
NOT MOUNT V01GD0001692 R5024 10K (J)
NOT MOUNT V01GD0001756 R5027 47K (J)
NOT MOUNT V01GD0001692 R5028 10K (J)
NOT MOUNT V01GD0001692 R5029 10K (J)
NOT MOUNT V01GD0001692 R5032 10K (J)
NOT MOUNT V01GD0001692 R5033 10K (J)
NOT MOUNT V01GD0001732 R5010 1K (J)
NOT MOUNT V01GD0001692 R5013 10K (J)
NOT MOUNT V01GD0001692 R5017 10K (J)
NOT MOUNT V01GD0001732 R5009 1K (J)
5V1
NOT MOUNT
V01GD0001756
R5927 47K (J)
POWER_KEY
502:5D:504:1B
RMT_IN
501:6D:502:4B
NOT MOUNT
D5001
V42GD0000172
[ZDC]
02CZ6.2-Y (TE85R, F)
NOT MOUNT
D5002
V42GD0000172
[ZDC]
02CZ6.2-Y (TE85R, F)
NC
A
C
GND
NOT MOUNT
R5910 1K (J)
V01GD0001732
5V1
C5006
50V 10pF (J)
V03GD0001213
NOT MOUNT
[XB]
X5002
SSP-T6
V10A00002400
NOT MOUNT
C5007
50V 12pF (J)
NOT MOUNT
V03GD0000767
R5052
100 (J)
NOT MOUNT
V01GD0001739
R5053 100 (J)
V01GD0001739
NOT MOUNT
SCL2
ON
SDA2
ON
NOT MOUNT
C5019
10V 1uF (K)
V03GD0001144
GND
5V1
NOT MOUNT
R5955 10K (J)
V01GD0001692
NOT MOUNT
R5915 1K (J)
V01GD0001732
R5044 10K (J)
R5045 10K (J)
R5048 100 (J)
R5049 1K (J)
R5050 10K (J)
R5011 100 (J)
R5012 100 (J)
R5015 100 (J)
R5055 100 (J)
NOT MOUNT V01GD0001692
NOT MOUNT V01GD0001692
NOT MOUNT V01GD0001739
NOT MOUNT V01GD0001732
NOT MOUNT V01GD0001692
NOT MOUNT V01GD0001739
NOT MOUNT V01GD0001739
NOT MOUNT V01GD0001739
NOT MOUNT V01GD0001739
LED1
502:4C:504:1B
SUB_RXD1
410:7D
SUB_TXD1
410:7D
SUB_TEST1
410:7D
LED0
502:4C:504:1B
GND
NOT MOUNT
V01GD0001692
R5964 10K (J)
R5963 10K (J)
V01GD0001692
NOT MOUNT
GND

U03AS MAIN [500] TV MICRO_1 (PE0492)

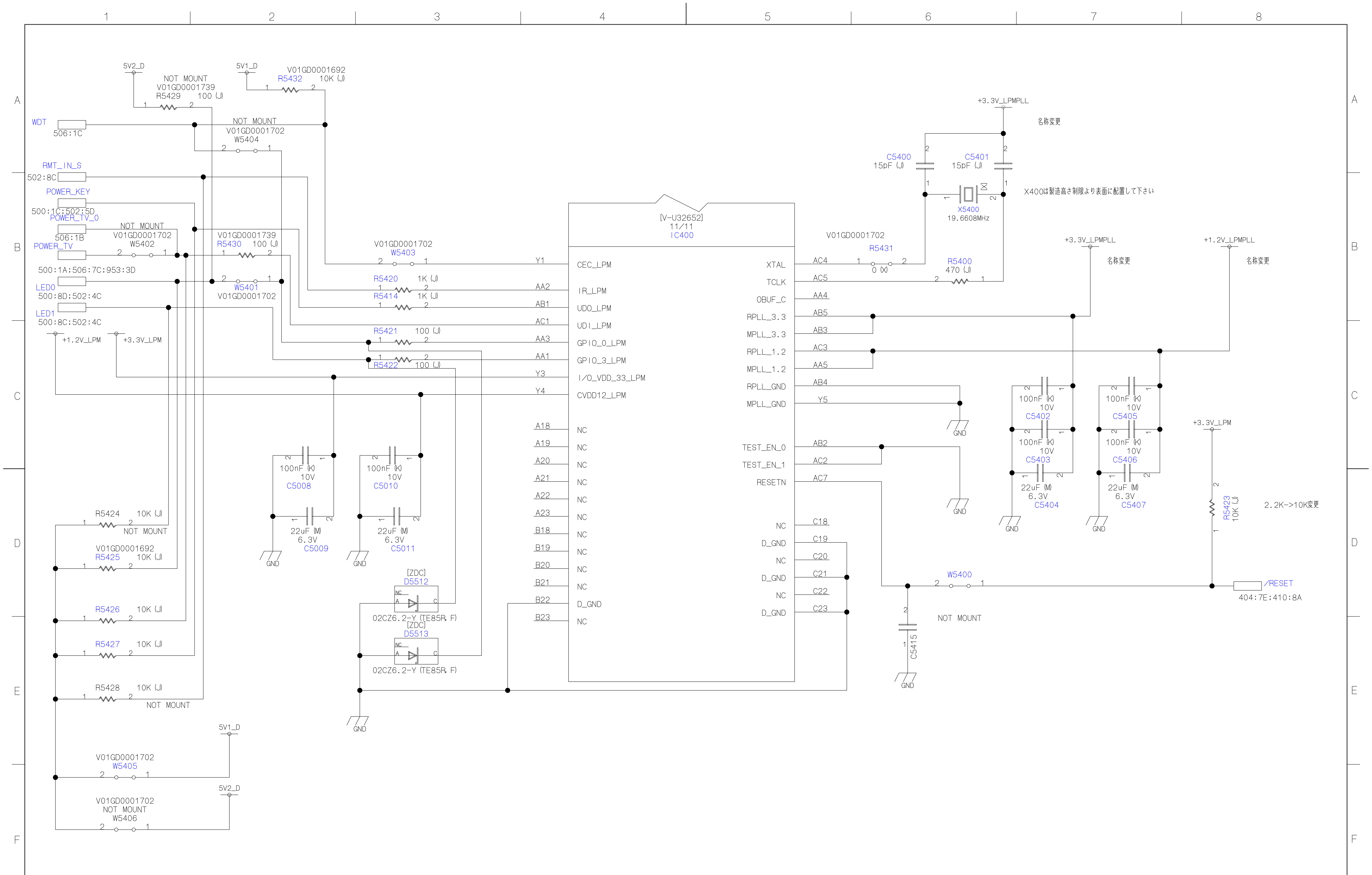

5V1
NOT MOUNT
V01GD0001756
R5100 47K (J)
1
2
IC513
BD4742G-TR
V47GD0000897
NOT MOUNT
[L47XX]
SUB
VOUT
[VCC]
[GND]
NC
2
5
3
1
4
RESET_U
500:1A
NOT MOUNT
V42A00002000
[ZD]
D5100
MAZ80680ML
C
A
C5100
10V 1uF (K)
V03GD0001144
NOT MOUNT
GND
C5101
50V 100pF (J)
V03GD0000772
NOT MOUNT
[ZD]
D5101
MAZ80680ML
V42A00002000
NOT MOUNT
GND


5V2
NOT MOUNT
V01GD0001756
R5114 47K (J)
5V1
R5110
47K (J)
C5103
100nF (K)
10V
GND
TC7SH126FU (TE85L, F
BUS BUFFER
[V-CL1G126B]
IC512
G
A
Y
VCC
GND
RMT_IN
500:1D;502:4B
R5111
1K (J)
RMT_IN_S1
502:6C
R5113
1K (J)
5V1
R5112
470 (J)
C5104
100nF (K)
10V
[ZD]
D5103
MAZ80330LL
GND
GND

U03AS MAIN [501] SUB MICRO-2 (PE0492)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
C5201
100pF (J)
50V
C5202
100nF (K)
10V
GND
5V1
BK1608 HS102-T
FL521
FL522
FL523
FL524
FL525
TO U02A KEY/LED/RMT [8] KEY&LED (PE0491)
P521A → P521B
[C12A]
P521A
B12B-PH-K-S (LF) (SN)
RMT_IN
500:1D:501:6D
LED0
500:8D:504:1B
LED1
500:8C:504:1B
LED2
208:3D
C5203
100pF (J)
50V
C5204
100pF (J)
50V
C5205
100pF (J)
50V
POWER_KEY
500:1C:504:1B
ADC_IN1
404:1B
ADC_IN2
404:1B
[VARA]
RV500
[VARA]
RV501
[VARA]
RV502
RMT_IN_S1
501:8D
RMT_IN_S
504:1B
[FL08B]
FL526
BK3216 4S121-T
AFT1
850:7E
AFT_IN1
400:2B

U03AS MAIN [502] SUB MICRO-3 (PE0492)


1
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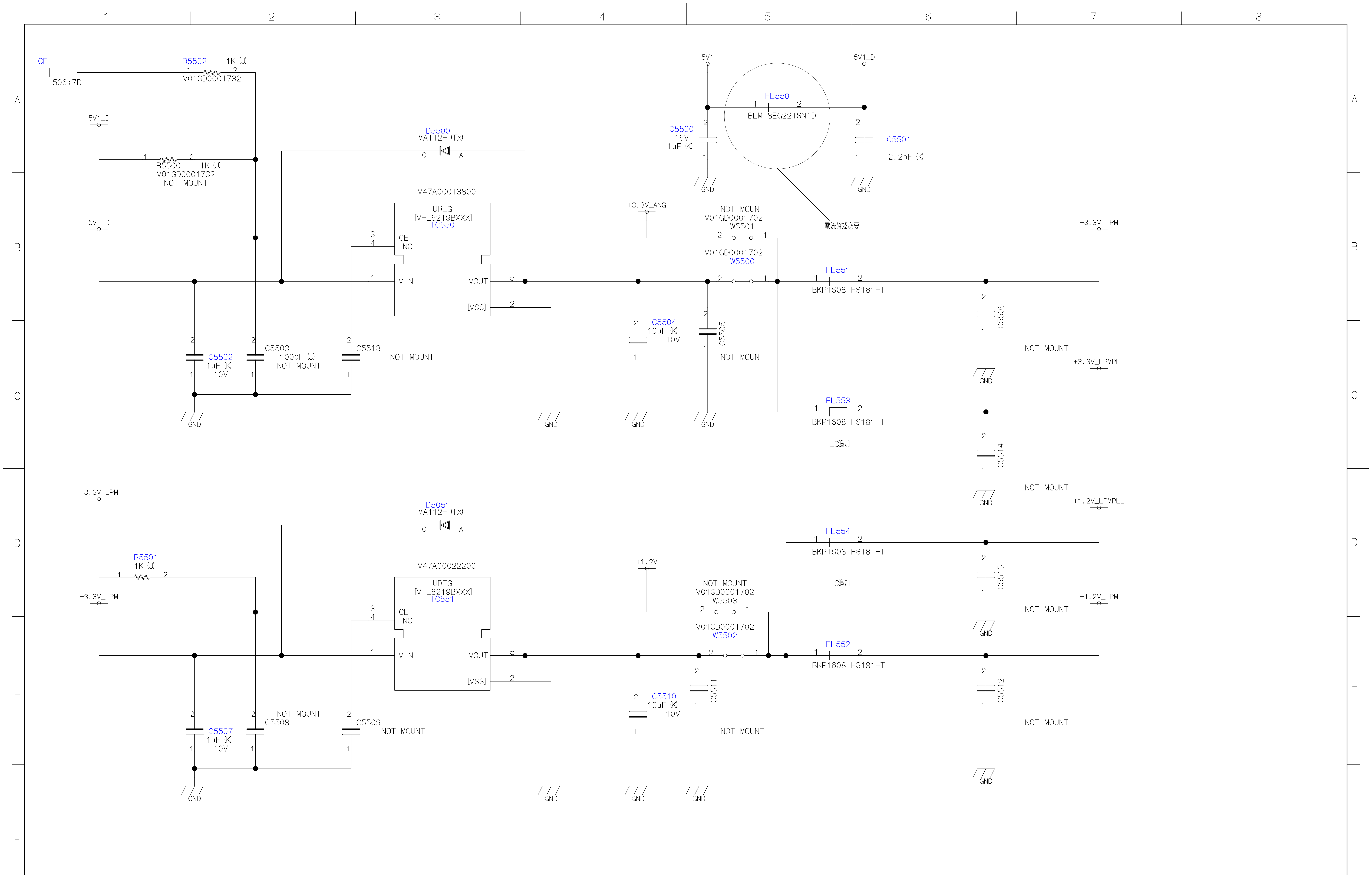
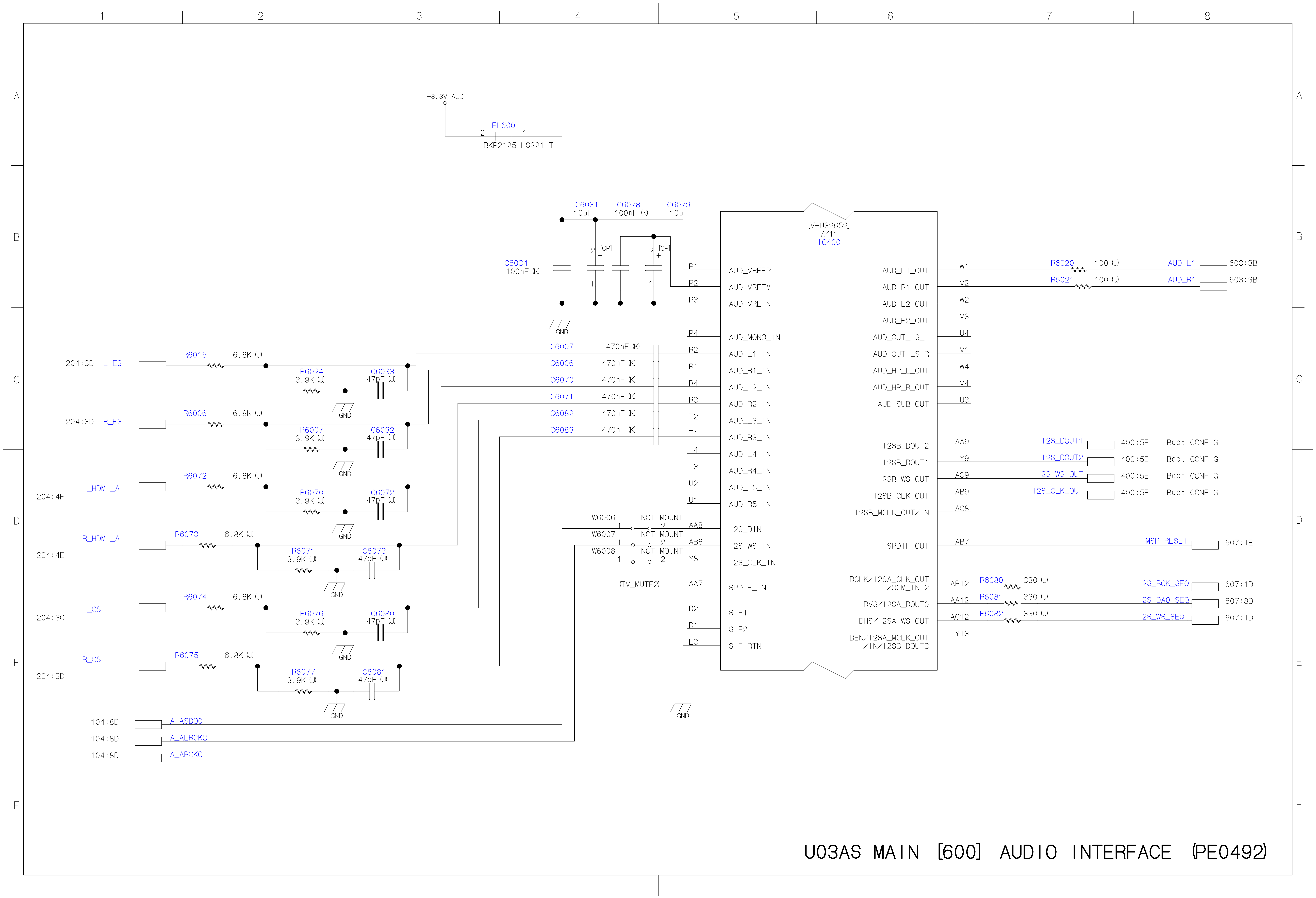
3
4
5
6
7
8
A
B
C
D
E
F
5V2_D
NOT MOUNT
V01GD0001739
R5429 100 (J)
5V1_D
V01GD0001692
R5432 10K (J)
WDT
506:1C
NOT MOUNT
V01GD0001702
W5404
RMT_IN_S
502:8C
POWER_KEY
500:1C:502:5D
POWER_TV_O
506:1B
NOT MOUNT
V01GD0001702
W5402
POWER_TV
V01GD0001739
R5430 100 (J)
500:1A:506:7C:953:3D
LED0
500:8D:502:4C
W5401
V01GD0001702
LED1
500:8C:502:4C
+1.2V_LPM
+3.3V_LPM
V01GD0001702
W5403
R5420 1K (J)
R5414 1K (J)
R5421 100 (J)
R5422 100 (J)
Y1
AA2
AB1
AC1
AA3
AA1
Y3
Y4
A18
A19
A20
A21
A22
A23
B18
B19
B20
B21
B22
B23
[V-U32652]
11/11
IC400
CEC_LPM
IR_LPM
UDO_LPM
UDI_LPM
GPIO_0_LPM
GPIO_3_LPM
I/O_VDD_33_LPM
CVDD12_LPM
NC
D_GND
XTAL
TCLK
OBUF_C
RPLL_3.3
MPLL_3.3
RPLL_1.2
MPLL_1.2
RPLL_GND
MPLL_GND
TEST_EN_0
TEST_EN_1
RESETN
AC4
AC5
AA4
AB5
AB3
AC3
AA5
AB4
Y5
AB2
AC2
AC7
C18
C19
C20
C21
C22
C23
+3.3V_LPMPLL
名称変更
C5400 15pF (J)
C5401 15pF (J)
X5400
19.6608MHz
X400は製造高さ制限より表面に配置して下さい
V01GD0001702
R5431
0 (K)
R5400 470 (J)
+3.3V_LPMPLL
名称変更
+1.2V_LPMPLL
名称変更
100nF (K) 10V C5402
100nF (K) 10V C5403
22uF (M) 6.3V C5404
100nF (K) 10V C5405
100nF (K) 10V C5406
22uF (M) 6.3V C5407
100nF (K) 10V C5008
22uF (M) 6.3V C5009
100nF (K) 10V C5010
22uF (M) 6.3V C5011
GND
+3.3V_LPM
R5423 10K (J)
2.2K->10K変更
W5400
/RESET
404:7E:410:8A
NOT MOUNT
C5415
[ZDC]
D5512
02CZ6.2-Y (TE85R, F)
[ZDC]
D5513
02CZ6.2-Y (TE85R, F)
NC
A
C
R5424 10K (J)
NOT MOUNT
V01GD0001692
R5425 10K (J)
R5426 10K (J)
R5427 10K (J)
R5428 10K (J)
NOT MOUNT
5V1_D
V01GD0001702
W5405
5V2_D
V01GD0001702
NOT MOUNT
W5406

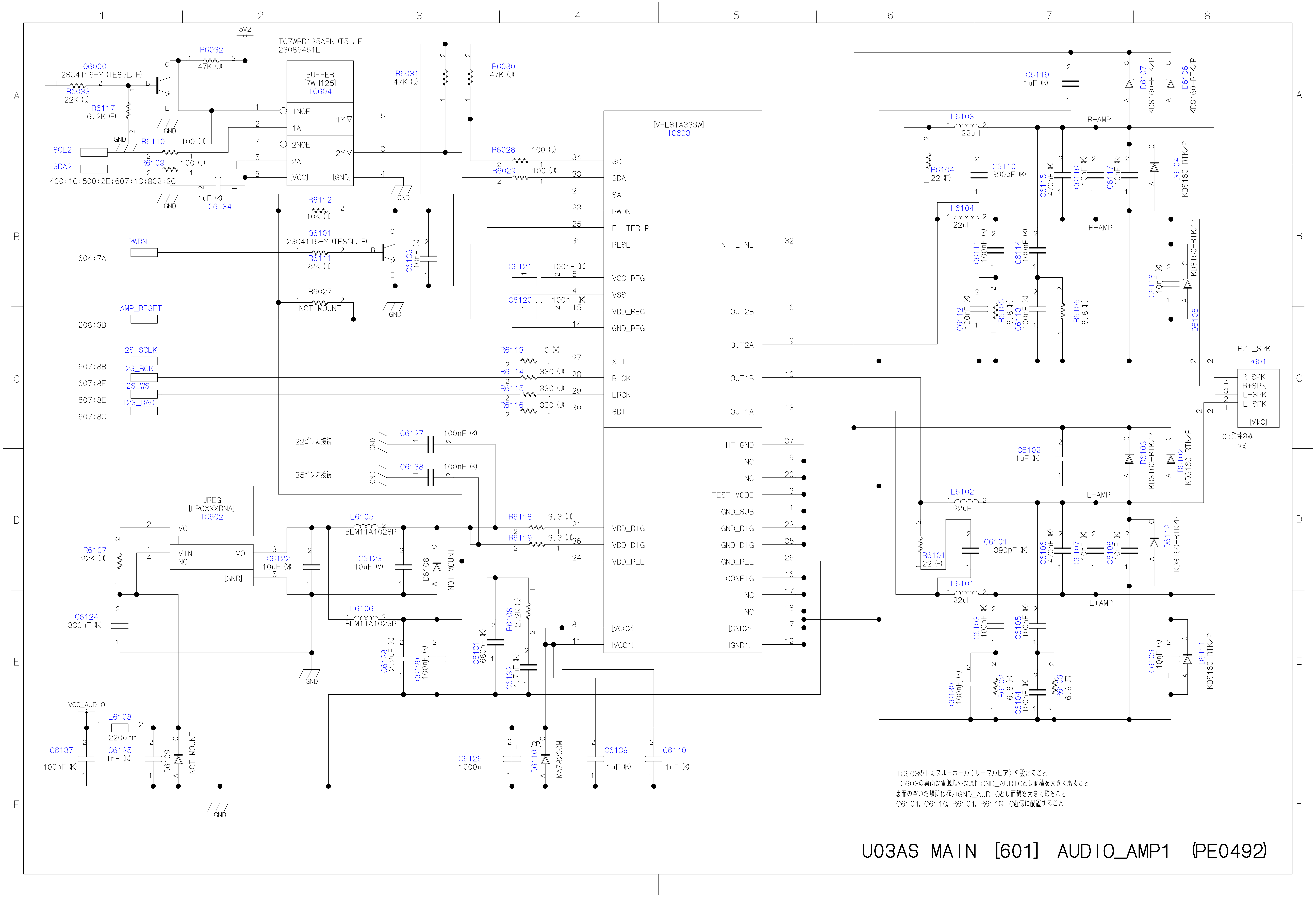
U03AS MAIN [504] SUB MICRO (PE0492)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
CE
506:7D
R5502
1K (J)
V01GD0001732
5V1_D
R5500
1K (J)
V01GD0001732
NOT MOUNT
D5500
MA112- (TX)
C
A
V47A00013800
UREG
[V-L6219BXXX]
IC550
CE
NC
VIN
VOUT
[VSS]
5V1_D
C5502
1uF (K)
10V
C5503
100pF (J)
NOT MOUNT
C5513
NOT MOUNT
GND
5V1
5V1_D
FL550
BLM18EG221SN1D
C5500
16V
1uF (K)
C5501
2.2nF (K)
電流確認必要
+3.3V_ANG
NOT MOUNT
V01GD0001702
W5501
V01GD0001702
W5500
C5504
10uF (K)
10V
C5505
NOT MOUNT
FL551
BKP1608 HS181-T
C5506
NOT MOUNT
+3.3V_LPM
+3.3V_LPMPLL
FL553
BKP1608 HS181-T
LC追加
C5514
NOT MOUNT
+3.3V_LPM
D5051
MA112- (TX)
R5501
1K (J)
+3.3V_LPM
V47A00022200
UREG
[V-L6219BXXX]
IC551
CE
NC
VIN
VOUT
[VSS]
C5507
1uF (K)
10V
C5508
NOT MOUNT
C5509
NOT MOUNT
+1.2V
NOT MOUNT
V01GD0001702
W5503
V01GD0001702
W5502
C5510
10uF (K)
10V
C5511
NOT MOUNT
+1.2V_LPMPLL
FL554
BKP1608 HS181-T
LC追加
C5515
NOT MOUNT
+1.2V_LPM
FL552
BKP1608 HS181-T
C5512
NOT MOUNT
GND

U03AS MAIN [505] Sequoia LP REG (PE0492)

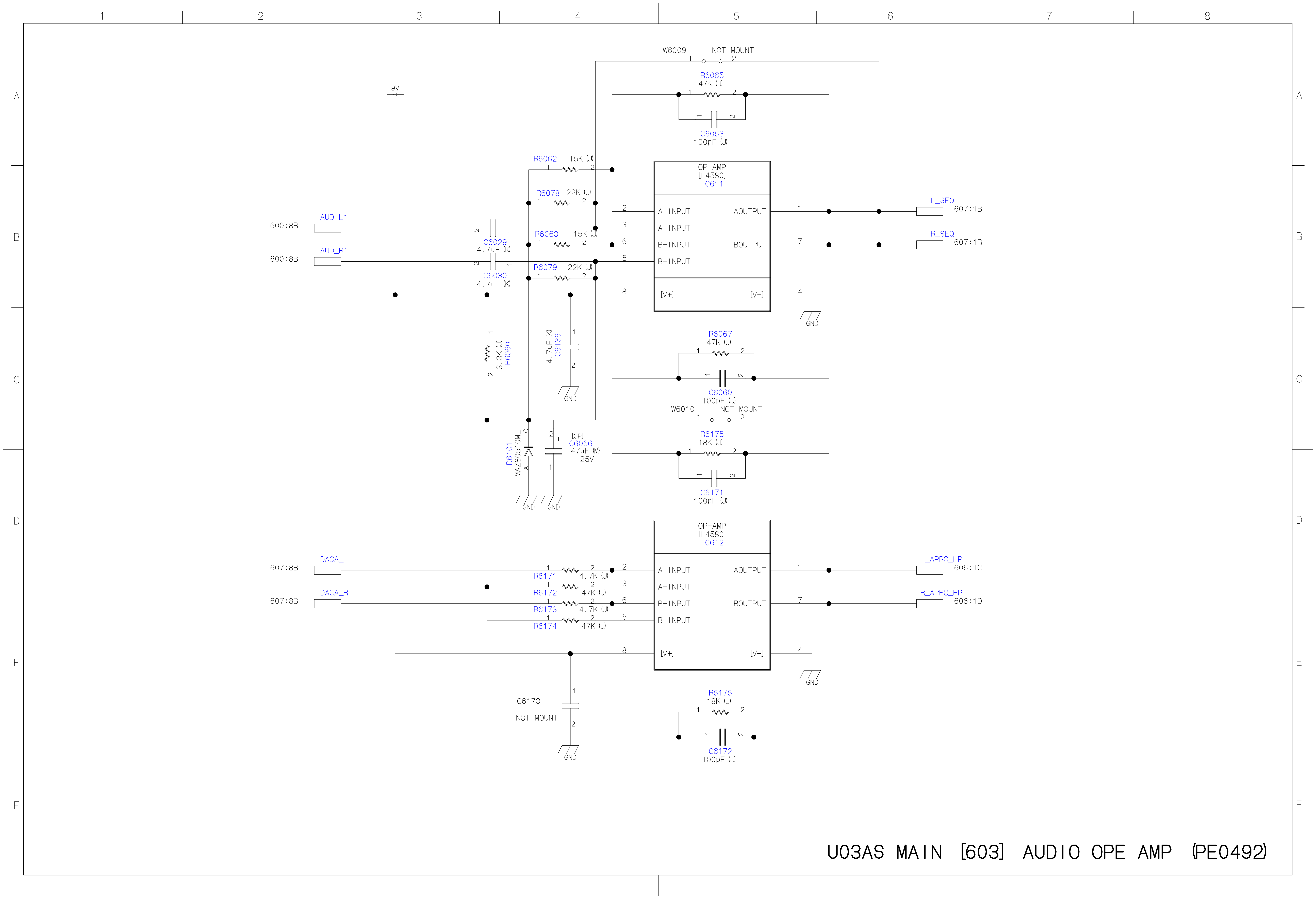

+3.3V_AUD
FL600
2
1
BKP2125 HS221-T
C6031
10uF
C6078
100nF (K)
C6079
10uF
C6034
100nF (K)
[CP]
GND
[V-U32652]
7/11
IC400
P1 AUD_VREFP
P2 AUD_VREFM
P3 AUD_VREFN
P4 AUD_MONO_IN
R2 AUD_L1_IN
R1 AUD_R1_IN
R4 AUD_L2_IN
R3 AUD_R2_IN
T2 AUD_L3_IN
T1 AUD_R3_IN
T4 AUD_L4_IN
T3 AUD_R4_IN
U2 AUD_L5_IN
U1 AUD_R5_IN
AA8 I2S_DIN
AB8 I2S_WS_IN
Y8 I2S_CLK_IN
AA7 SPDIF_IN
D2 SIF1
D1 SIF2
E3 SIF_RTN
AUD_L1_OUT W1
AUD_R1_OUT V2
AUD_L2_OUT W2
AUD_R2_OUT V3
AUD_OUT_LS_L U4
AUD_OUT_LS_R V1
AUD_HP_L_OUT W4
AUD_HP_R_OUT V4
AUD_SUB_OUT U3
I2SB_DOUT2 AA9
I2SB_DOUT1 Y9
I2SB_WS_OUT AC9
I2SB_CLK_OUT AB9
I2SB_MCLK_OUT/IN AC8
SPDIF_OUT AB7
DCLK/I2SA_CLK_OUT /OCM_INT2 AB12
DVS/I2SA_DOUT0 AA12
DHS/I2SA_WS_OUT AC12
DEN/I2SA_MCLK_OUT /IN/I2SB_DOUT3 Y13
R6020 100 (J) AUD_L1 603:3B
R6021 100 (J) AUD_R1 603:3B
I2S_DOUT1 400:5E Boot CONFIG
I2S_DOUT2 400:5E Boot CONFIG
I2S_WS_OUT 400:5E Boot CONFIG
I2S_CLK_OUT 400:5E Boot CONFIG
MSP_RESET 607:1E
R6080 330 (J) I2S_BCK_SEQ 607:1D
R6081 330 (J) I2S_DA0_SEQ 607:8D
R6082 330 (J) I2S_WS_SEQ 607:1D
C6007 470nF (K)
C6006 470nF (K)
C6070 470nF (K)
C6071 470nF (K)
C6082 470nF (K)
C6083 470nF (K)
204:3D L_E3
R6015 6.8K (J)
R6024 3.9K (J)
C6033 47pF (J)
204:3D R_E3
R6006 6.8K (J)
R6007 3.9K (J)
C6032 47pF (J)
204:4F L_HDMI_A
R6072 6.8K (J)
R6070 3.9K (J)
C6072 47pF (J)
204:4E R_HDMI_A
R6073 6.8K (J)
R6071 3.9K (J)
C6073 47pF (J)
204:3C L_CS
R6074 6.8K (J)
R6076 3.9K (J)
C6080 47pF (J)
204:3D R_CS
R6075 6.8K (J)
R6077 3.9K (J)
C6081 47pF (J)
W6006 NOT MOUNT
W6007 NOT MOUNT
W6008 NOT MOUNT
(TV_MUTE2)
104:8D A_ASDO0
104:8D A_ALRCKO
104:8D A_ABCKO

U03AS MAIN [600] AUDIO INTERFACE (PE0492)

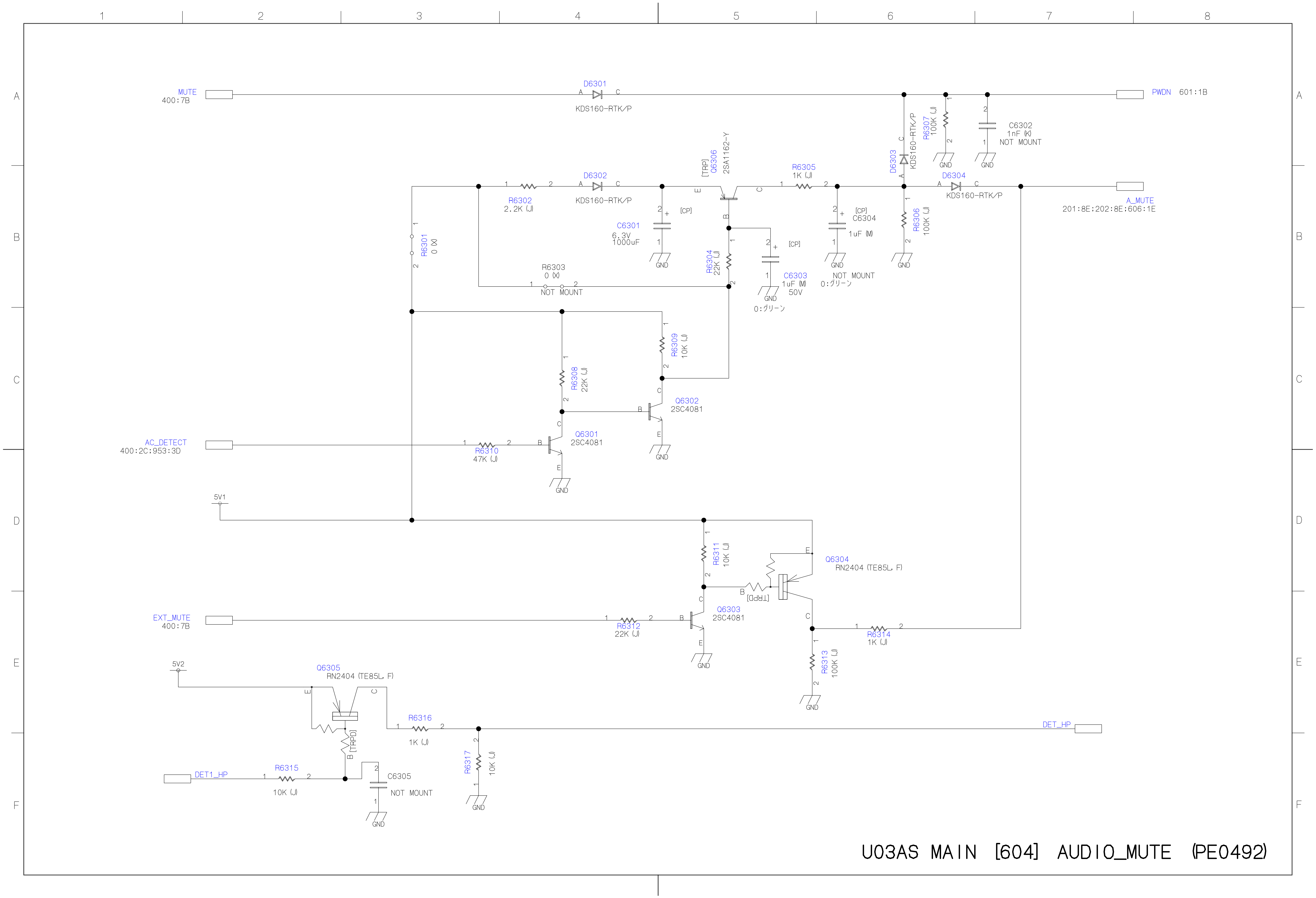

1
2
3
4
5
6
7
8
A
B
C
D
E
F
5V2
TC7WBD125AFK (T5L, F
23085461L
BUFFER
[7WH125]
IC604
1NOE
1A
2NOE
2A
[VCC]
[GND]
1Y
2Y
Q6000
2SC4116-Y (TE85L, F)
R6033
22K (J)
R6117
6.2K (F)
R6032
47K (J)
R6031
47K (J)
R6030
47K (J)
R6110
100 (J)
R6109
100 (J)
SCL2
SDA2
400:1C:500:2E:607:1C:802:2C
C6134
1uF (K)
GND
PWDN
604:7A
R6112
10K (J)
Q6101
2SC4116-Y (TE85L, F)
R6111
22K (J)
C6133
10nF (K)
R6027
NOT MOUNT
AMP_RESET
208:3D
I2S_SCLK
I2S_BCK
I2S_WS
I2S_DAO
607:8B
607:8E
607:8E
607:8C
R6028
100 (J)
R6029
100 (J)
C6121
100nF (K)
C6120
100nF (K)
R6113
0 (X)
R6114
330 (J)
R6115
330 (J)
R6116
330 (J)
[V-LSTA333W]
IC603
SCL
SDA
SA
PWDN
FILTER_PLL
RESET
INT_LINE
VCC_REG
VSS
VDD_REG
GND_REG
XTI
BICKI
LRCKI
SDI
OUT2B
OUT2A
OUT1B
OUT1A
HT_GND
NC
NC
TEST_MODE
GND_SUB
GND_DIG
GND_DIG
GND_PLL
CONFIG
NC
NC
[GND2]
[GND1]
VDD_DIG
VDD_DIG
VDD_PLL
[VCC2]
[VCC1]
22ピンに接続
35ピンに接続
C6127
100nF (K)
C6138
100nF (K)
UREG
[LPQXXXDNA]
IC602
VC
VIN
NC
VO
[GND]
R6107
22K (J)
C6124
330nF (K)
C6122
10uF (M)
L6105
BLM11A102SPT
C6123
10uF (M)
D6108
NOT MOUNT
L6106
BLM11A102SPT
C6128
2.2uF (K)
C6129
100nF (K)
R6118
3.3 (J)
R6119
3.3 (J)
C6131
680pF (K)
R6108
2.2K (J)
C6132
4.7nF (K)
VCC_AUDIO
L6108
220ohm
C6137
100nF (K)
C6125
1nF (K)
D6109
NOT MOUNT
C6126
1000u
[CP]
D6110
MAZ8200ML
C6139
1uF (K)
C6140
1uF (K)
C6119
1uF (K)
D6107
KDS160-RTK/P
D6106
KDS160-RTK/P
L6103
22uH
R-AMP
R6104
22 (F)
C6110
390pF (K)
C6115
470nF (K)
C6116
10nF (K)
C6117
10nF (K)
D6104
KDS160-RTK/P
L6104
22uH
R+AMP
C6111
100nF (K)
C6114
100nF (K)
C6112
100nF (K)
R6105
6.8 (F)
C6113
100nF (K)
R6106
6.8 (F)
C6118
10nF (K)
KDS160-RTK/P
D6105
R/L_SPK
P601
R-SPK
R+SPK
L+SPK
L-SPK
[C4A]
0:発番のみ
ダミー
C6102
1uF (K)
D6103
KDS160-RTK/P
D6102
KDS160-RTK/P
L6102
22uH
L-AMP
R6101
22 (F)
C6101
390pF (K)
C6106
470nF (K)
C6107
10nF (K)
C6108
10nF (K)
D6112
KDS160-RTK/P
L6101
22uH
L+AMP
C6103
100nF (K)
C6105
100nF (K)
C6130
100nF (K)
R6102
6.8 (F)
C6104
100nF (K)
R6103
6.8 (F)
C6109
10nF (K)
D6111
KDS160-RTK/P

IC603の下にスルーホール（サーマルビア）を設けること
IC603の裏面は電源以外は原則GND_AUDIOとし面積を大きく取ること
表面の空いた場所は極力GND_AUDIOとし面積を大きく取ること
C6101, C6110, R6101, R611はIC近傍に配置すること

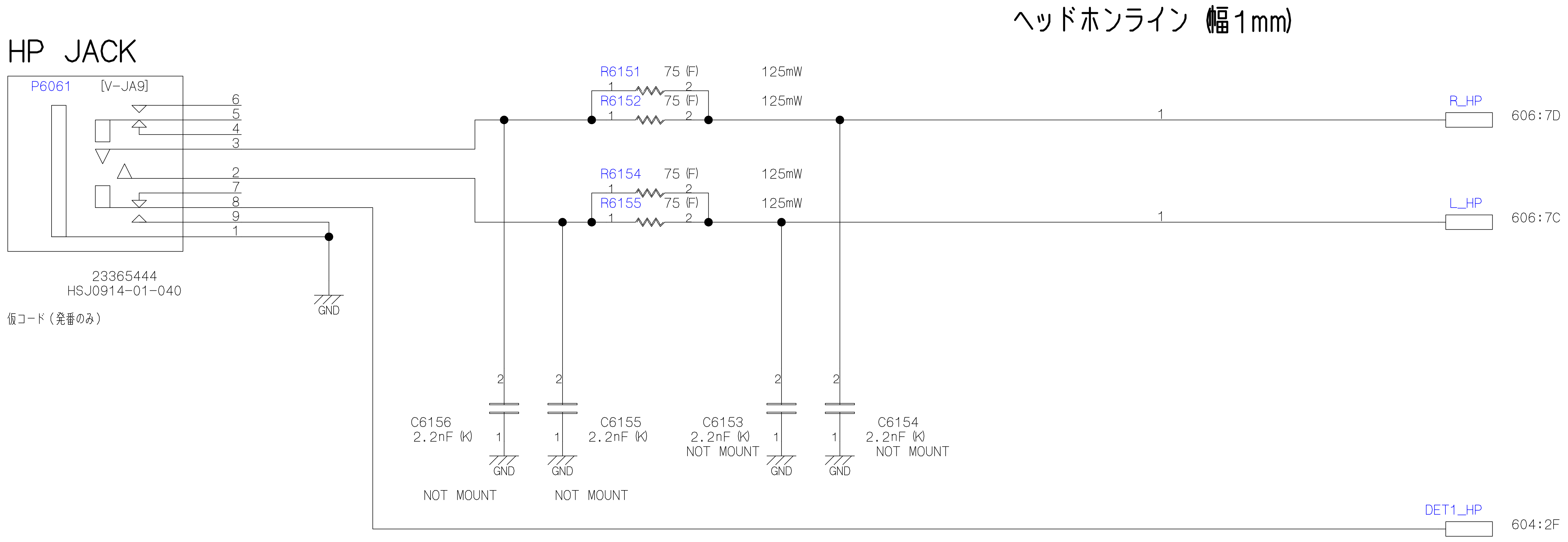
U03AS MAIN [601] AUDIO_AMP1 (PE0492)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
W6009
NOT MOUNT
R6065
47K (J)
C6063
100pF (J)
9V
R6062
15K (J)
R6078
22K (J)
OP-AMP
[L4580]
IC611
A-INPUT
A+INPUT
B-INPUT
B+INPUT
AOUTPUT
BOUTPUT
[V+]
[V-]
GND
L_SEQ
607:1B
R_SEQ
607:1B
600:8B
AUD_L1
600:8B
AUD_R1
C6029
4.7uF (K)
C6030
4.7uF (K)
R6063
15K (J)
R6079
22K (J)
R6060
3.3K (J)
C6136
4.7uF (K)
R6067
47K (J)
C6060
100pF (J)
W6010
NOT MOUNT
D6101
MAZ80510ML
[CP]
C6066
47uF (M)
25V
R6175
18K (J)
C6171
100pF (J)
OP-AMP
[L4580]
IC612
607:8B
DACA_L
607:8B
DACA_R
R6171
4.7K (J)
R6172
47K (J)
R6173
4.7K (J)
R6174
47K (J)
L_APRO_HP
606:1C
R_APRO_HP
606:1D
C6173
NOT MOUNT
R6176
18K (J)
C6172
100pF (J)

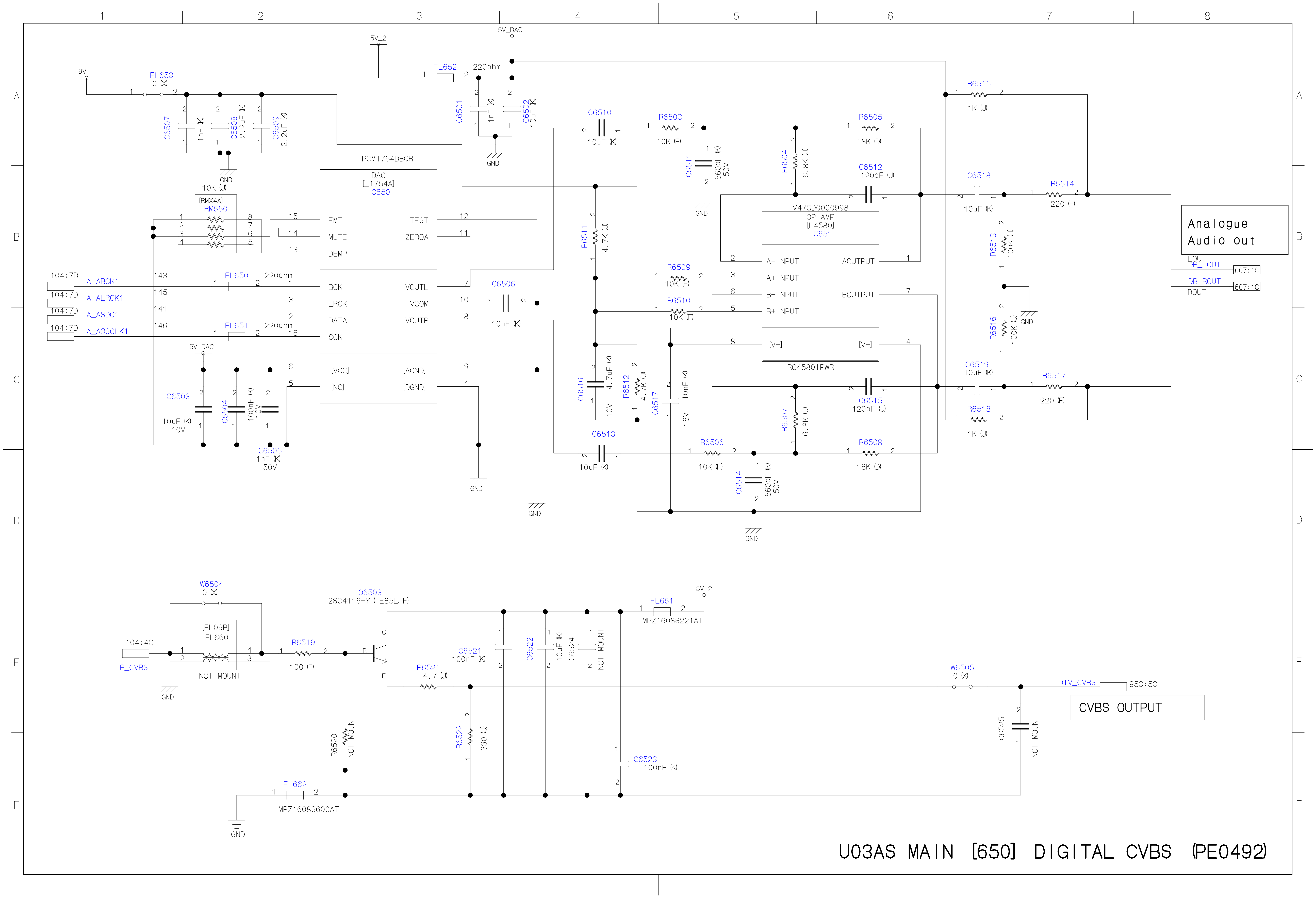
U03AS MAIN [603] AUDIO OPE AMP (PE0492)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
MUTE
400:7B
D6301
A
C
KDS160-RTK/P
PWDN 601:1B
R6307
100K (J)
C6302
1nF (K)
NOT MOUNT
GND
D6303
KDS160-RTK/P
[TRP]
Q6306
2SA1162-Y
R6302
2.2K (J)
D6302
KDS160-RTK/P
R6305
1K (J)
D6304
KDS160-RTK/P
A_MUTE
201:8E:202:8E:606:1E
C6301
6.3V
1000uF
[CP]
C6304
1uF (M)
NOT MOUNT
0:グリーン
R6306
100K (J)
R6301
0 (X)
R6304
22K (J)
C6303
1uF (M)
50V
R6303
0 (X)
NOT MOUNT
R6309
10K (J)
R6308
22K (J)
Q6302
2SC4081
AC_DETECT
400:2C:953:3D
R6310
47K (J)
Q6301
2SC4081
5V1
R6311
10K (J)
Q6304
RN2404 (TE85L, F)
[TRPD]
EXT_MUTE
400:7B
R6312
22K (J)
Q6303
2SC4081
R6314
1K (J)
R6313
100K (J)
5V2
Q6305
RN2404 (TE85L, F)
R6316
1K (J)
DET_HP
R6317
10K (J)
DET1_HP
R6315
10K (J)
C6305
NOT MOUNT
B
C
E

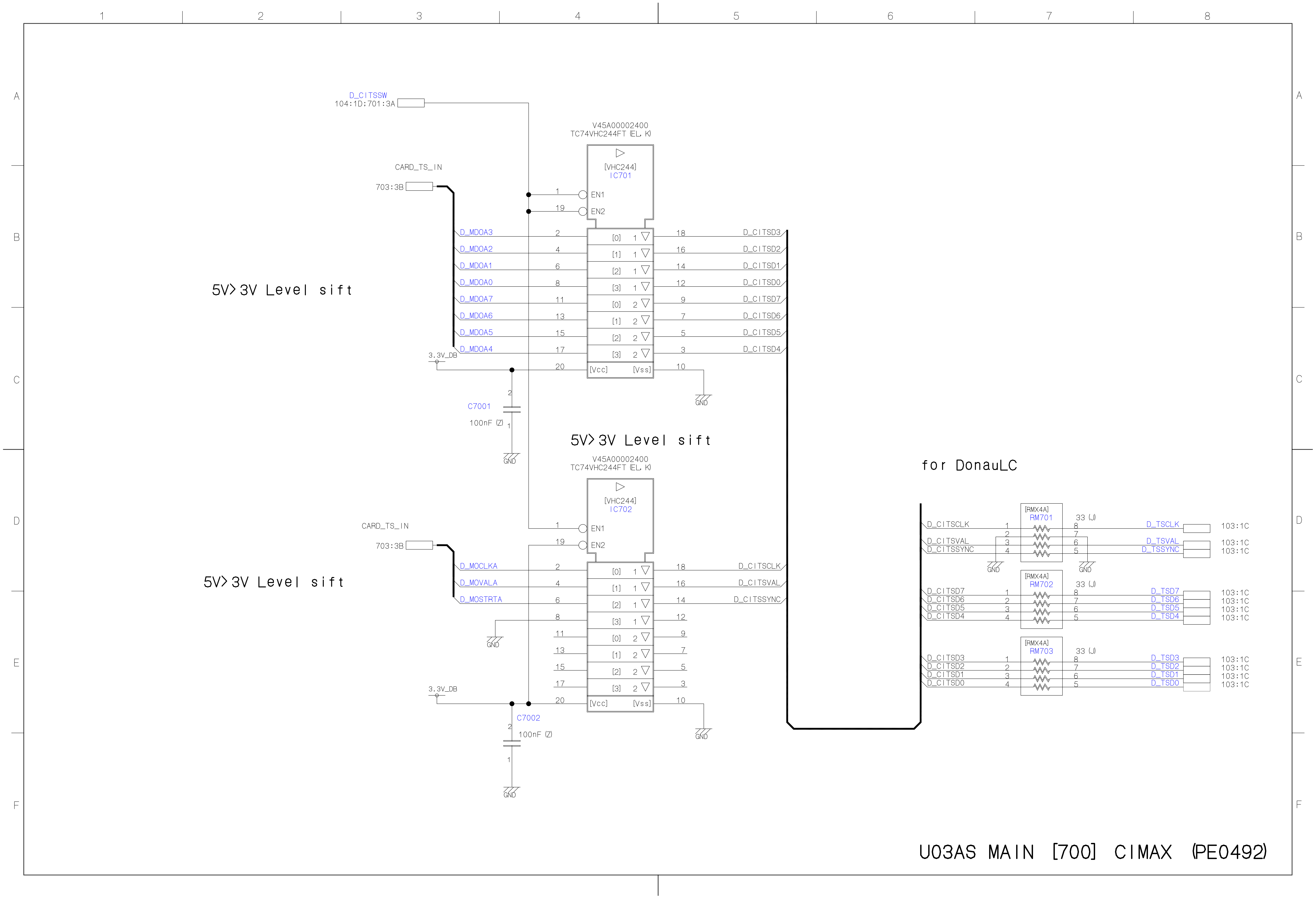
U03AS MAIN [604] AUDIO_MUTE (PE0492)


ヘッドホンライン (幅1mm)
HP JACK
P6061
[V-JA9]
6
5
4
3
2
7
8
9
1
23365444
HSJ0914-01-040
仮コード (発番のみ)
GND
R6151 75 (F) 125mW
R6152 75 (F) 125mW
R6154 75 (F) 125mW
R6155 75 (F) 125mW
C6156 2.2nF (K)
NOT MOUNT
C6155 2.2nF (K)
NOT MOUNT
C6153 2.2nF (K) NOT MOUNT
C6154 2.2nF (K) NOT MOUNT
R_HP 606:7D
L_HP 606:7C
DET1_HP 604:2F

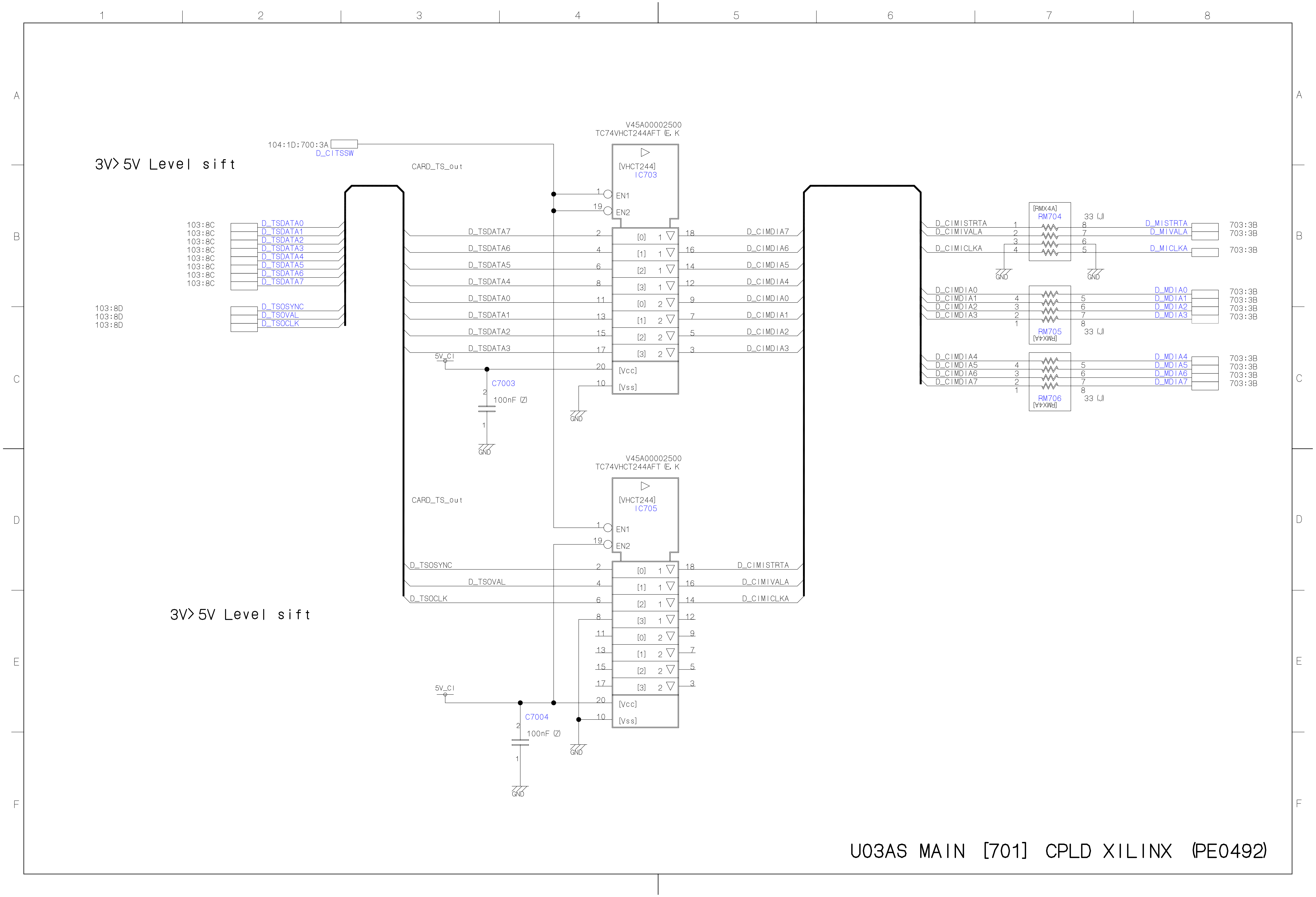
U03AS MAIN [605] HP-OUT / PC-IN (PE0492)


9V
FL653
0 (X)
C6507
1nF (K)
C6508
2.2uF (K)
C6509
2.2uF (K)
GND
10K (J)
[RMX4A]
RM650
5V_2
FL652
220ohm
5V_DAC
C6501
1nF (K)
C6502
10uF (K)
PCM1754DBQR
DAC
[L1754A]
IC650
FMT
MUTE
DEMP
TEST
ZEROA
BCK
LRCK
DATA
SCK
VOUTL
VCOM
VOUTR
[VCC]
[NC]
[AGND]
[DGND]
104:7D
A_ABCK1
A_ALRCK1
A_ASDO1
A_AOSCLK1
FL650
220ohm
FL651
220ohm
C6503
10uF (K)
10V
C6504
100nF (K)
10V
C6505
1nF (K)
50V
C6506
10uF (K)
C6510
10uF (K)
R6503
10K (F)
C6511
560pF (K)
50V
R6504
6.8K (J)
R6505
18K (D)
C6512
120pF (J)
R6511
4.7K (J)
R6509
10K (F)
R6510
10K (F)
V47GD0000998
OP-AMP
[L4580]
IC651
A-INPUT
A+INPUT
B-INPUT
B+INPUT
AOUTPUT
BOUTPUT
[V+]
[V-]
RC4580IPWR
C6516
4.7uF (K)
10V
R6512
4.7K (J)
C6517
10nF (K)
16V
C6513
10uF (K)
R6506
10K (F)
C6514
560pF (K)
50V
R6507
6.8K (J)
R6508
18K (D)
C6515
120pF (J)
R6515
1K (J)
C6518
10uF (K)
R6514
220 (F)
R6513
100K (J)
R6516
100K (J)
C6519
10uF (K)
R6517
220 (F)
R6518
1K (J)
Analogue
Audio out
LOUT
DB_LOUT
607:1C
DB_ROUT
ROUT
607:1C
W6504
0 (X)
104:4C
B_CVBS
[FL09B]
FL660
NOT MOUNT
R6519
100 (F)
Q6503
2SC4116-Y (TE85L, F)
R6520
NOT MOUNT
R6521
4.7 (J)
R6522
330 (J)
C6521
100nF (K)
C6522
10uF (K)
C6524
NOT MOUNT
C6523
100nF (K)
FL661
MPZ1608S221AT
5V_2
W6505
0 (X)
IDTV_CVBS
953:5C
CVBS OUTPUT
C6525
NOT MOUNT
FL662
MPZ1608S600AT
GND

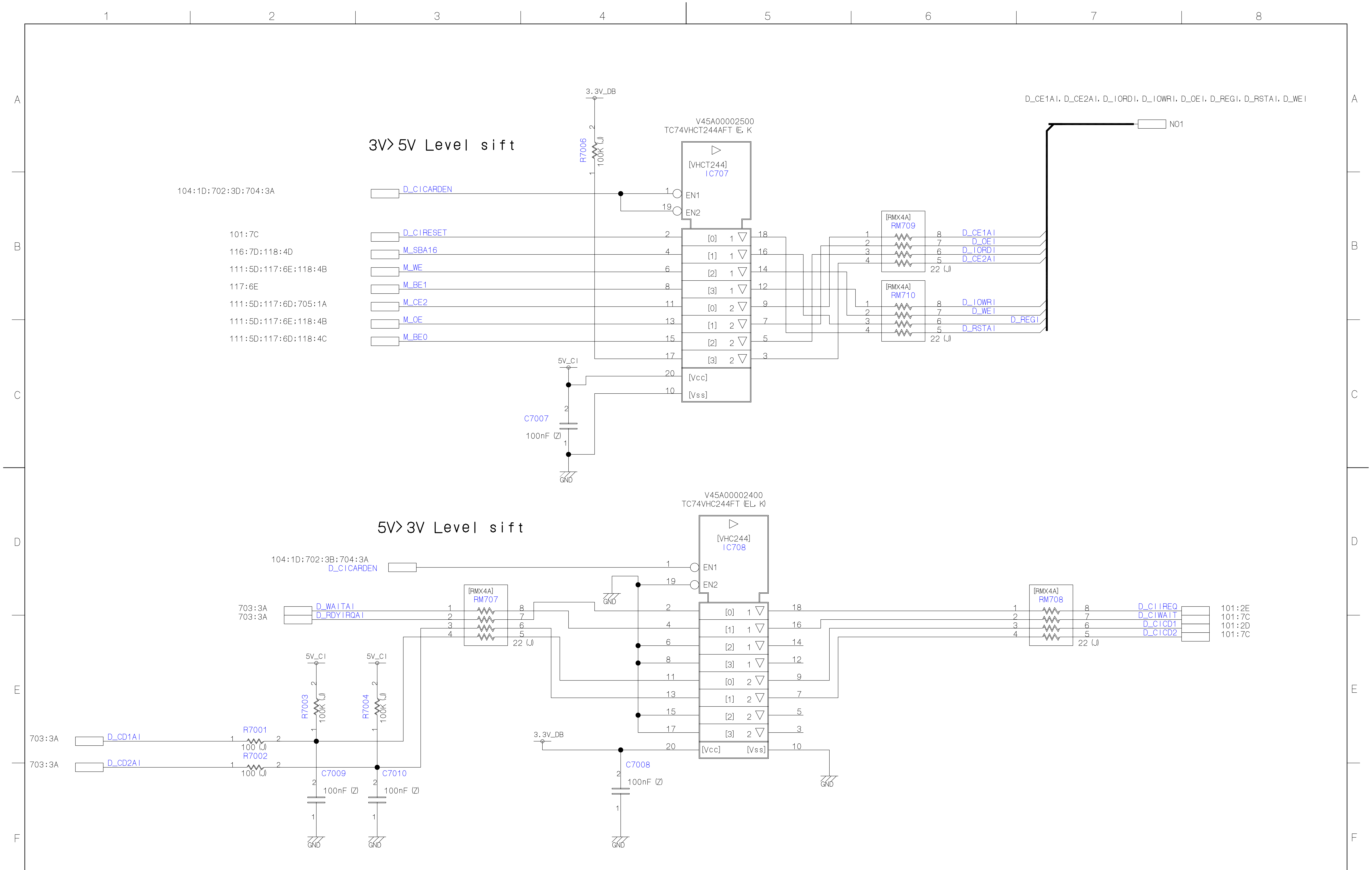
U03AS MAIN [650] DIGITAL CVBS (PE0492)


D_CITSSW
104:1D:701:3A
V45A00002400
TC74VHC244FT (EL, K)
[VHC244]
IC701
CARD_TS_IN
703:3B
EN1
EN2
D_MDOA3
D_MDOA2
D_MDOA1
D_MDOA0
D_MDOA7
D_MDOA6
D_MDOA5
D_MDOA4
D_CITSD3
D_CITSD2
D_CITSD1
D_CITSD0
D_CITSD7
D_CITSD6
D_CITSD5
D_CITSD4
5V>3V Level sift
3.3V_DB
[Vcc]
[Vss]
GND
C7001
100nF (Z)
5V>3V Level sift
V45A00002400
TC74VHC244FT (EL, K)
[VHC244]
IC702
CARD_TS_IN
703:3B
D_MOCLKA
D_MOVALA
D_MOSTRTA
D_CITSCLK
D_CITSVAL
D_CITSSYNC
5V>3V Level sift
3.3V_DB
C7002
100nF (Z)
for DonauLC
[RMX4A]
RM701
33 (J)
D_TSCLK
D_TSVAL
D_TSSYNC
[RMX4A]
RM702
33 (J)
D_TSD7
D_TSD6
D_TSD5
D_TSD4
[RMX4A]
RM703
33 (J)
D_TSD3
D_TSD2
D_TSD1
D_TSD0
103:1C

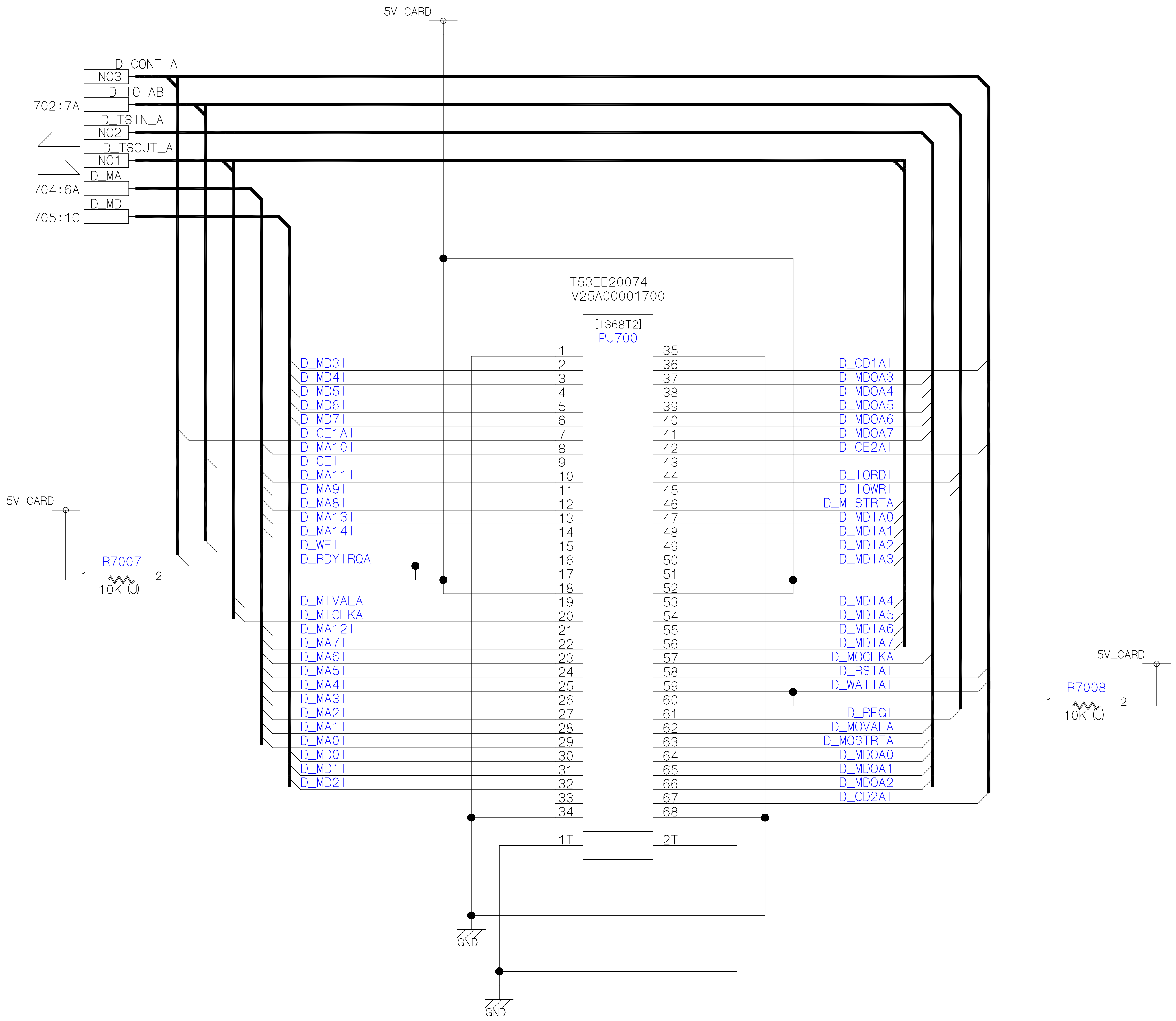
U03AS MAIN [700] CIMAX (PE0492)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
3V> 5V Level sift
104:1D:700:3A
D_CITSSW
CARD_TS_out
V45A00002500
TC74VHCT244AFT (E, K
[VHCT244]
IC703
EN1
EN2
103:8C
D_TSDATA0
D_TSDATA1
D_TSDATA2
D_TSDATA3
D_TSDATA4
D_TSDATA5
D_TSDATA6
D_TSDATA7
103:8D
D_TSOSYNC
D_TSOVAL
D_TSOCLK
D_CIMDIA7
D_CIMDIA6
D_CIMDIA5
D_CIMDIA4
D_CIMDIA0
D_CIMDIA1
D_CIMDIA2
D_CIMDIA3
[Vcc]
[Vss]
5V_CI
C7003
100nF (Z)
GND
[RMX4A]
RM704
33 (J)
D_CIMISTRTA
D_CIMIVALA
D_CIMICLKA
D_MISTRTA
D_MIVALA
D_MICLKA
703:3B
RM705
D_MDIA0
D_MDIA1
D_MDIA2
D_MDIA3
RM706
D_CIMDIA4
D_CIMDIA5
D_CIMDIA6
D_CIMDIA7
D_MDIA4
D_MDIA5
D_MDIA6
D_MDIA7
IC705
3V> 5V Level sift
D_CIMISTRTA
D_CIMIVALA
D_CIMICLKA
C7004
100nF (Z)

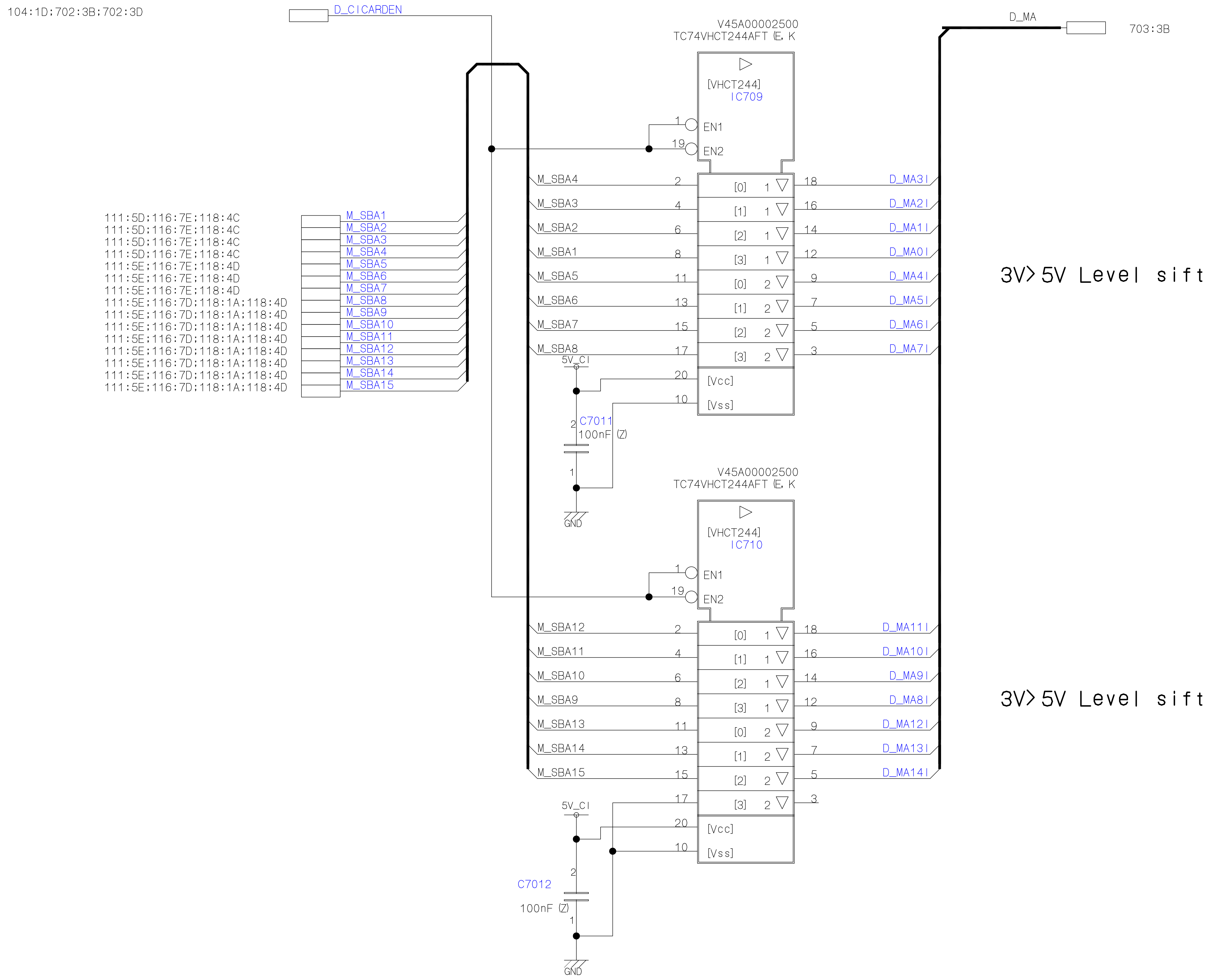
U03AS MAIN [701] CPLD XILINX (PE0492)


3V>5V Level sift
3.3V_DB
R7006
100K (J)
V45A00002500
TC74VHCT244AFT (E, K
[VHCT244]
IC707
EN1
EN2
104:1D:702:3D:704:3A
D_CICARDEN
101:7C
D_CIRESET
116:7D:118:4D
M_SBA16
111:5D:117:6E:118:4B
M_WE
117:6E
M_BE1
111:5D:117:6D:705:1A
M_CE2
111:5D:117:6E:118:4B
M_OE
111:5D:117:6D:118:4C
M_BE0
5V_CI
C7007
100nF (Z)
GND
[Vcc]
[Vss]
[RMX4A]
RM709
22 (J)
[RMX4A]
RM710
22 (J)
D_CE1AI
D_OEI
D_IORDI
D_CE2AI
D_IOWRI
D_WEI
D_REGI
D_RSTAI
D_CE1AI, D_CE2AI, D_IORDI, D_IOWRI, D_OEI, D_REGI, D_RSTAI, D_WEI
N01
5V>3V Level sift
V45A00002400
TC74VHC244FT (EL, K)
[VHC244]
IC708
104:1D:702:3B:704:3A
D_CICARDEN
703:3A
703:3A
D_WAITAI
D_RDYIRQAI
[RMX4A]
RM707
22 (J)
5V_CI
5V_CI
R7003
100K (J)
R7004
100K (J)
703:3A
D_CD1AI
R7001
100 (J)
703:3A
D_CD2AI
R7002
100 (J)
C7009
100nF (Z)
C7010
100nF (Z)
3.3V_DB
C7008
100nF (Z)
GND
[RMX4A]
RM708
22 (J)
D_CIIREQ
D_CIWAIT
D_CICD1
D_CICD2
101:2E
101:7C
101:2D
101:7C

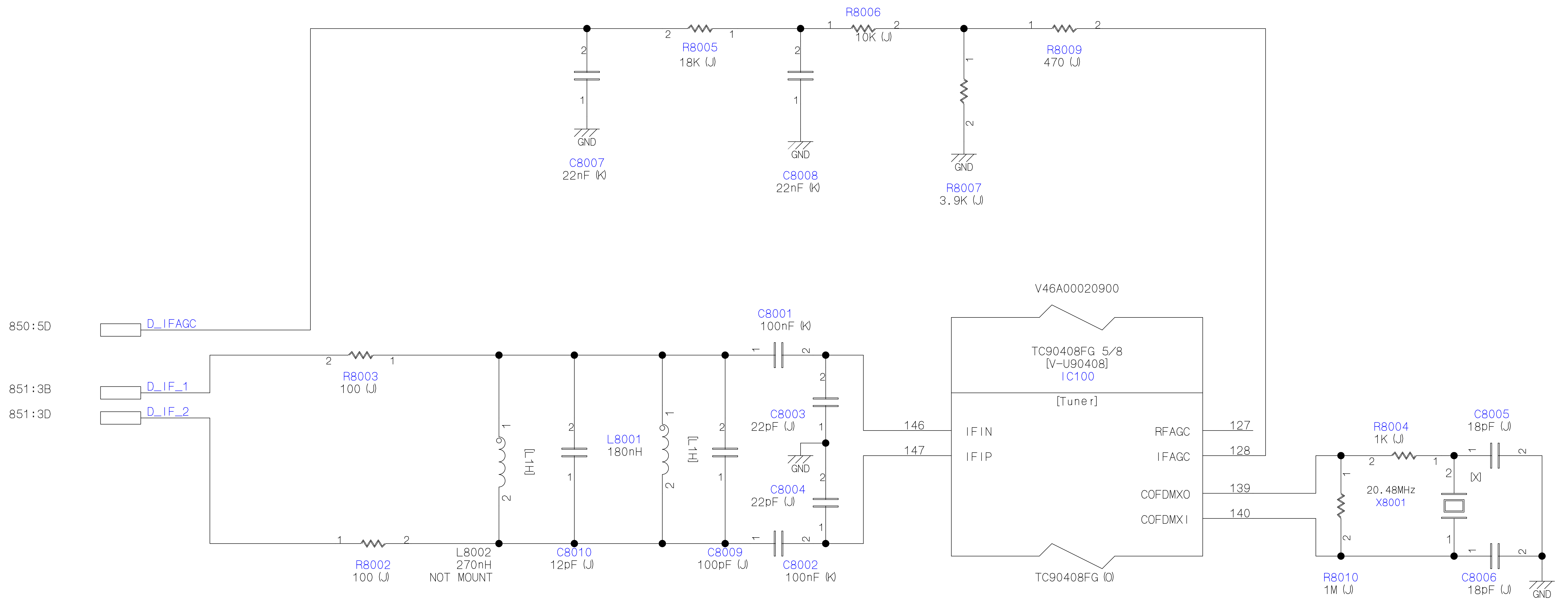
U03AS MAIN [702] DVB-CI I/F LOGIC3 (PE0492)


5V_CARD
D_CONT_A
NO3
D_IO_AB
702:7A
D_TSIN_A
NO2
D_TSOUT_A
NO1
D_MA
704:6A
D_MD
705:1C
T53EE20074
V25A00001700
[IS68T2]
PJ700
D_MD3I
D_MD4I
D_MD5I
D_MD6I
D_MD7I
D_CE1AI
D_MA10I
D_OEI
D_MA11I
D_MA9I
D_MA8I
D_MA13I
D_MA14I
D_WEI
D_RDYIRQAI
D_MIVALA
D_MICLKA
D_MA12I
D_MA7I
D_MA6I
D_MA5I
D_MA4I
D_MA3I
D_MA2I
D_MA1I
D_MA0I
D_MD0I
D_MD1I
D_MD2I
D_CD1AI
D_MDOA3
D_MDOA4
D_MDOA5
D_MDOA6
D_MDOA7
D_CE2AI
D_IORDI
D_IOWRI
D_MISTRTA
D_MDIA0
D_MDIA1
D_MDIA2
D_MDIA3
D_MDIA4
D_MDIA5
D_MDIA6
D_MDIA7
D_MOCLKA
D_RSTAI
D_WAITAI
D_REGI
D_MOVALA
D_MOSTRTA
D_MDOA0
D_MDOA1
D_MDOA2
D_CD2AI
1T
2T
R7007
10K (J)
R7008
10K (J)
GND
GND

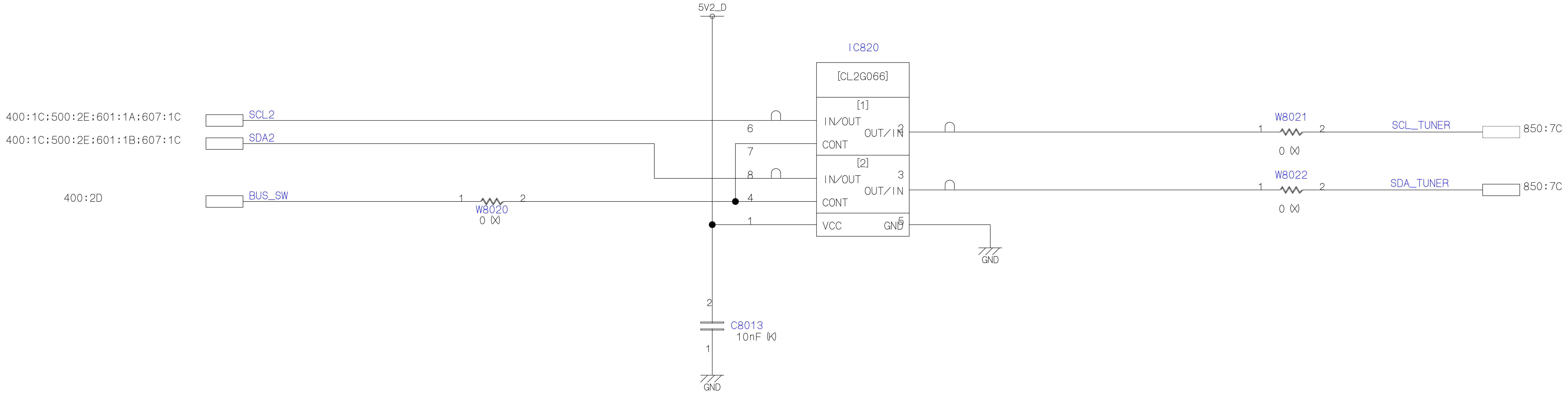
U03AS MAIN [703] DVB-CI I/F CONNECTOR (PE0492)


104:1D:702:3B:702:3D
D_CICARDEN
V45A00002500
TC74VHCT244AFT (E, K
[VHCT244]
IC709
EN1
EN2
D_MA
703:3B
111:5D:116:7E:118:4C
111:5D:116:7E:118:4C
111:5D:116:7E:118:4C
111:5D:116:7E:118:4C
111:5E:116:7E:118:4D
111:5E:116:7E:118:4D
111:5E:116:7E:118:4D
111:5E:116:7D:118:1A:118:4D
111:5E:116:7D:118:1A:118:4D
111:5E:116:7D:118:1A:118:4D
111:5E:116:7D:118:1A:118:4D
111:5E:116:7D:118:1A:118:4D
111:5E:116:7D:118:1A:118:4D
111:5E:116:7D:118:1A:118:4D
111:5E:116:7D:118:1A:118:4D
M_SBA1
M_SBA2
M_SBA3
M_SBA4
M_SBA5
M_SBA6
M_SBA7
M_SBA8
M_SBA9
M_SBA10
M_SBA11
M_SBA12
M_SBA13
M_SBA14
M_SBA15
D_MA3I
D_MA2I
D_MA1I
D_MA0I
D_MA4I
D_MA5I
D_MA6I
D_MA7I
3V>5V Level sift
5V_CI
[Vcc]
[Vss]
C7011
100nF (Z)
GND
V45A00002500
TC74VHCT244AFT (E, K
[VHCT244]
IC710
D_MA11I
D_MA10I
D_MA9I
D_MA8I
D_MA12I
D_MA13I
D_MA14I
3V>5V Level sift
C7012
100nF (Z)

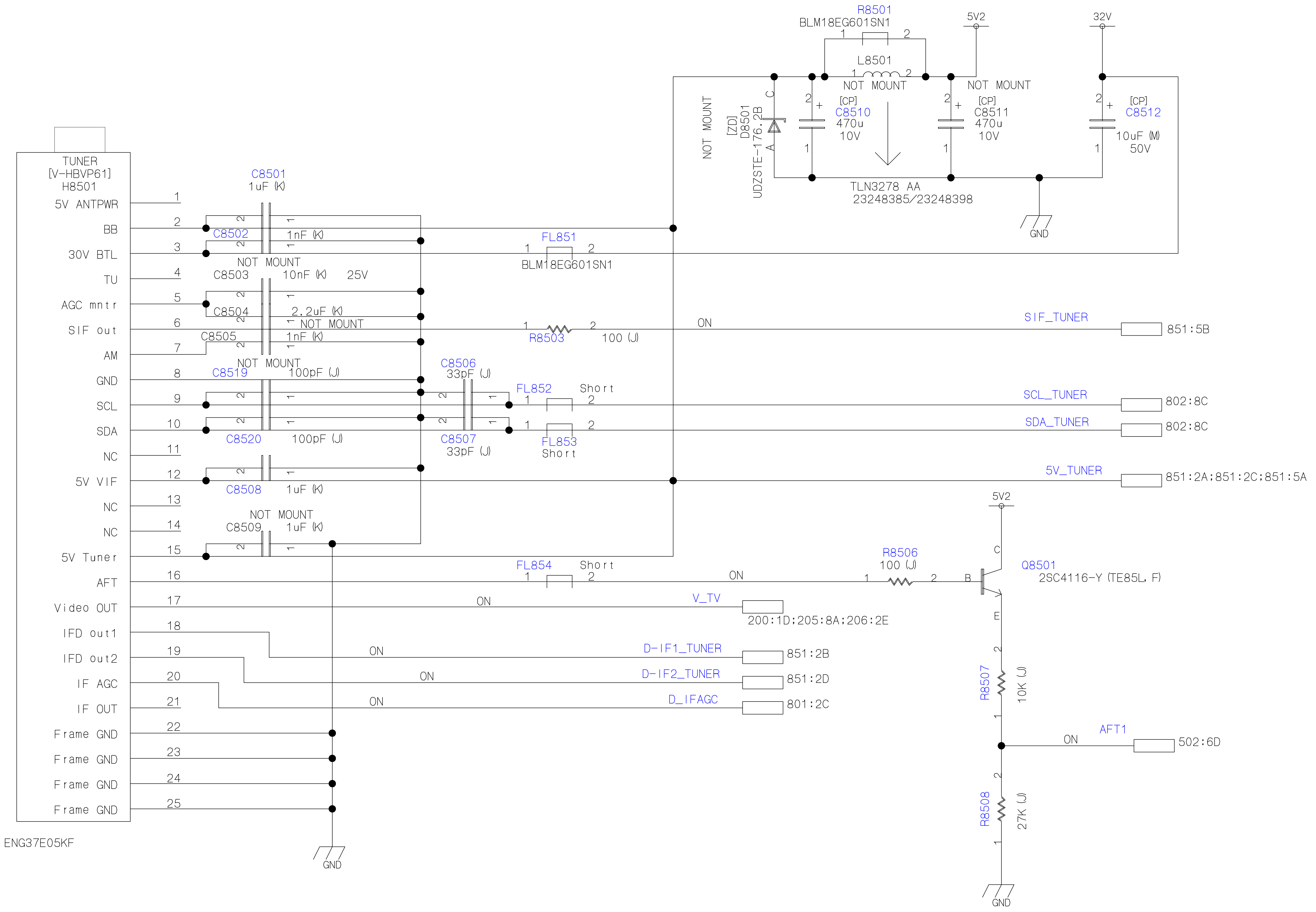
U03AS MAIN [704] DVB-CI I/F LOGIC4 (PE0492)


850:5D
D_IFAGC
851:3B
D_IF_1
851:3D
D_IF_2
R8005
18K (J)
R8006
10K (J)
R8009
470 (J)
C8007
22nF (K)
C8008
22nF (K)
R8007
3.9K (J)
GND
R8003
100 (J)
R8002
100 (J)
L8002
270nH
NOT MOUNT
[LH]
C8010
12pF (J)
L8001
180nH
C8009
100pF (J)
C8001
100nF (K)
C8003
22pF (J)
C8004
22pF (J)
C8002
100nF (K)
V46A00020900
TC90408FG 5/8
[V-U90408]
IC100
[Tuner]
IFIN
IFIP
RFAGC
IFAGC
COFDMXO
COFDMXI
146
147
127
128
139
140
TC90408FG (O)
R8004
1K (J)
C8005
18pF (J)
[X]
20.48MHz
X8001
R8010
1M (J)
C8006
18pF (J)

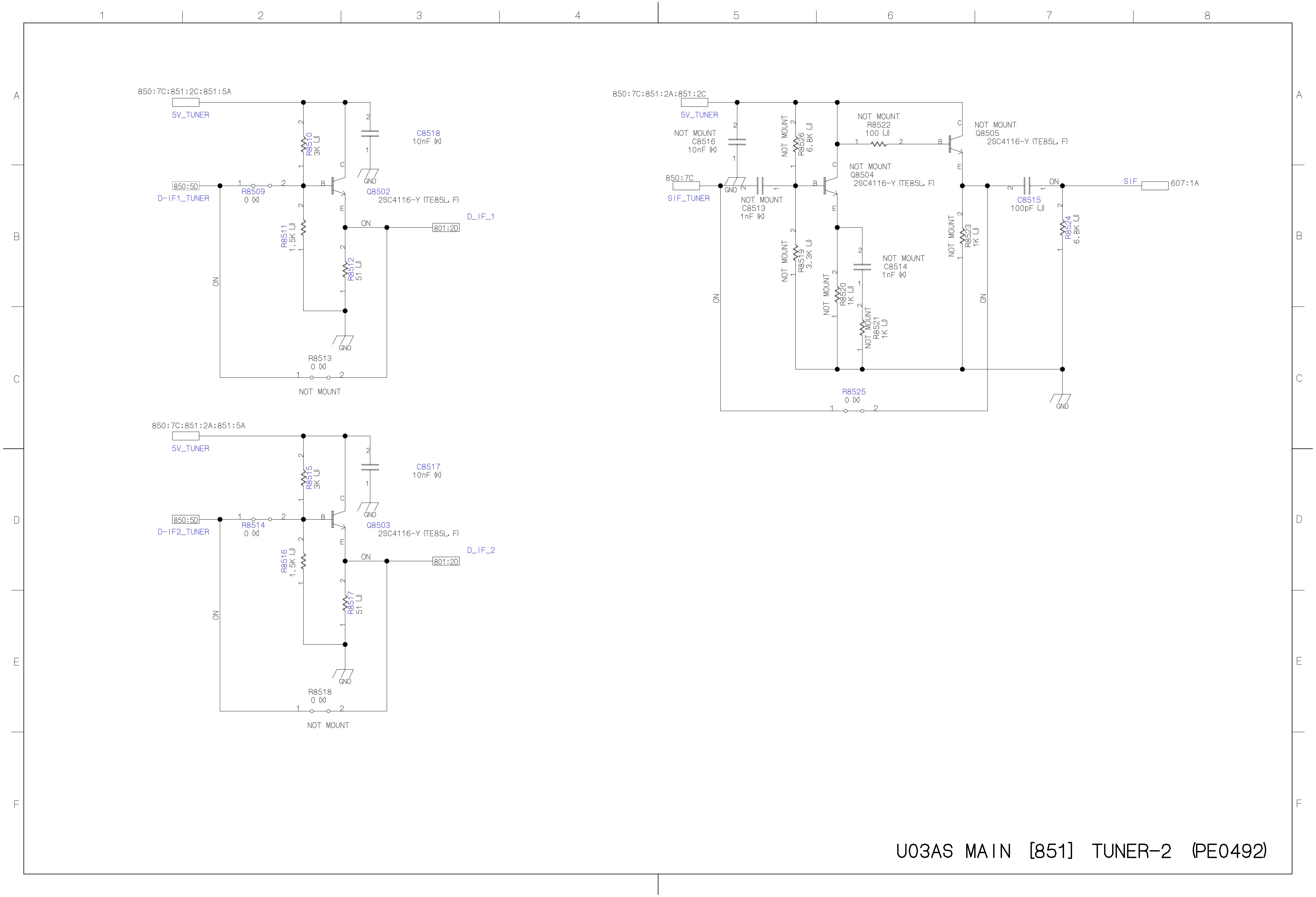
U03AS MAIN [801] Demod (PE0492)


5V2_D
IC820
[CL2G066]
[1]
IN/OUT
OUT/IN
CONT
[2]
IN/OUT
OUT/IN
CONT
VCC
GND
400:1C:500:2E:601:1A:607:1C
SCL2
400:1C:500:2E:601:1B:607:1C
SDA2
400:2D
BUS_SW
W8020
0 (X)
6
7
8
4
1
2
3
5
W8021
0 (X)
SCL_TUNER
850:7C
W8022
0 (X)
SDA_TUNER
850:7C
GND
C8013
10nF (K)
GND

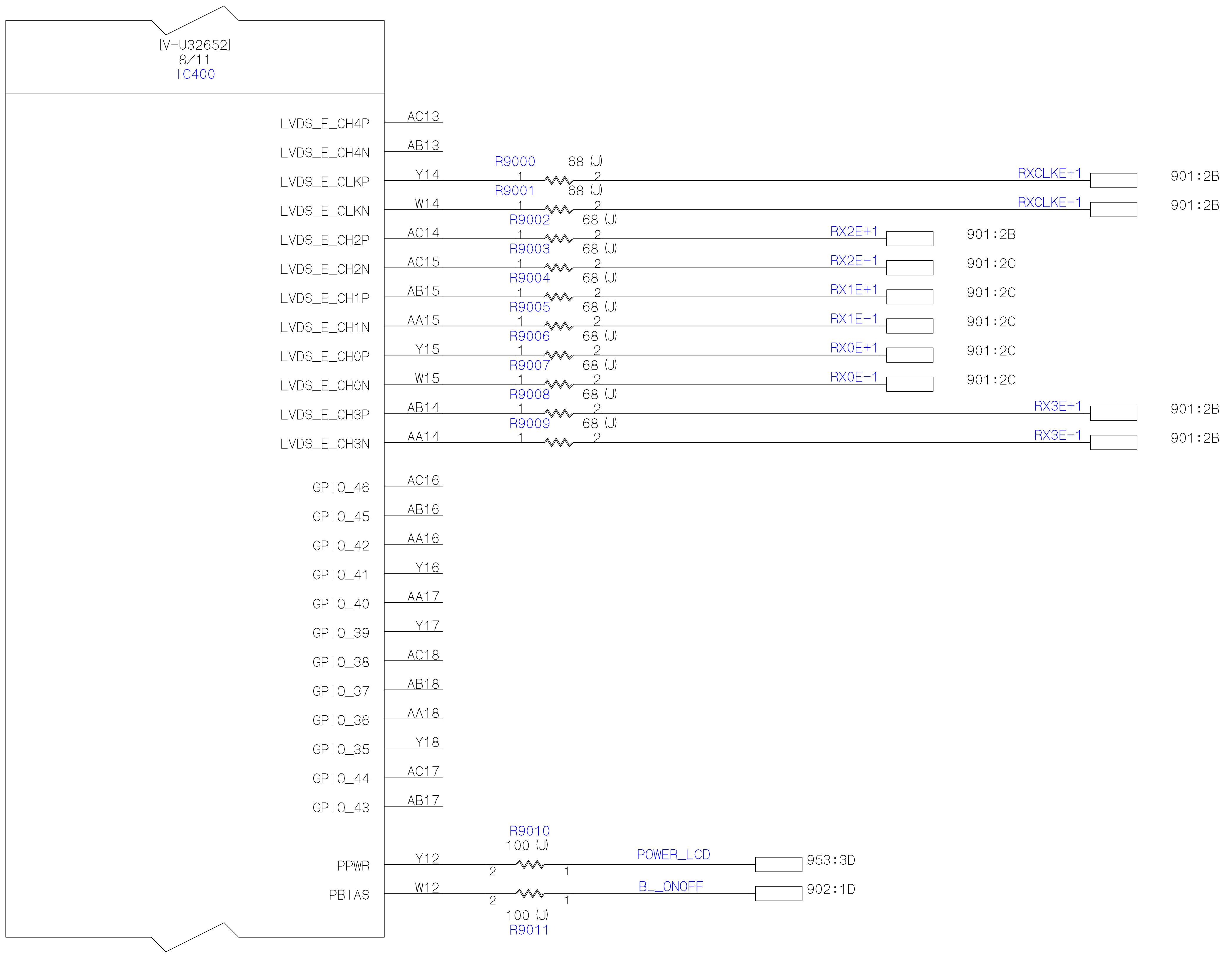
U03AS MAIN [802] Demod2 (PE0492)


TUNER
[V-HBVP61]
H8501
5V ANTPWR
BB
30V BTL
TU
AGC mntr
SIF out
AM
GND
SCL
SDA
NC
5V VIF
NC
NC
5V Tuner
AFT
Video OUT
IFD out1
IFD out2
IF AGC
IF OUT
Frame GND
Frame GND
Frame GND
Frame GND
ENG37E05KF
C8501
1uF (K)
C8502
1nF (K)
NOT MOUNT
C8503
10nF (K) 25V
C8504
2.2uF (K)
NOT MOUNT
C8505
1nF (K)
NOT MOUNT
C8519
100pF (J)
C8520
100pF (J)
C8508
1uF (K)
NOT MOUNT
C8509
1uF (K)
C8506
33pF (J)
C8507
33pF (J)
FL851
BLM18EG601SN1
R8503
100 (J)
FL852
Short
FL853
Short
FL854
Short
ON
SIF_TUNER
851:5B
SCL_TUNER
802:8C
SDA_TUNER
802:8C
5V_TUNER
851:2A;851:2C;851:5A
V_TV
200:1D;205:8A;206:2E
D-IF1_TUNER
851:2B
D-IF2_TUNER
851:2D
D_IFAGC
801:2C
GND
R8501
BLM18EG601SN1
L8501
NOT MOUNT
5V2
32V
NOT MOUNT
[ZD]
D8501
UDZSTE-176.2B
[CP]
C8510
470u
10V
[CP]
C8511
470u
10V
NOT MOUNT
[CP]
C8512
10uF (M)
50V
TLN3278 AA
23248385/23248398
GND
5V2
R8506
100 (J)
Q8501
2SC4116-Y (TE85L, F)
R8507
10K (J)
AFT1
502:6D
R8508
27K (J)
GND

U03AS MAIN [850] TUNER-1 (PE0492)

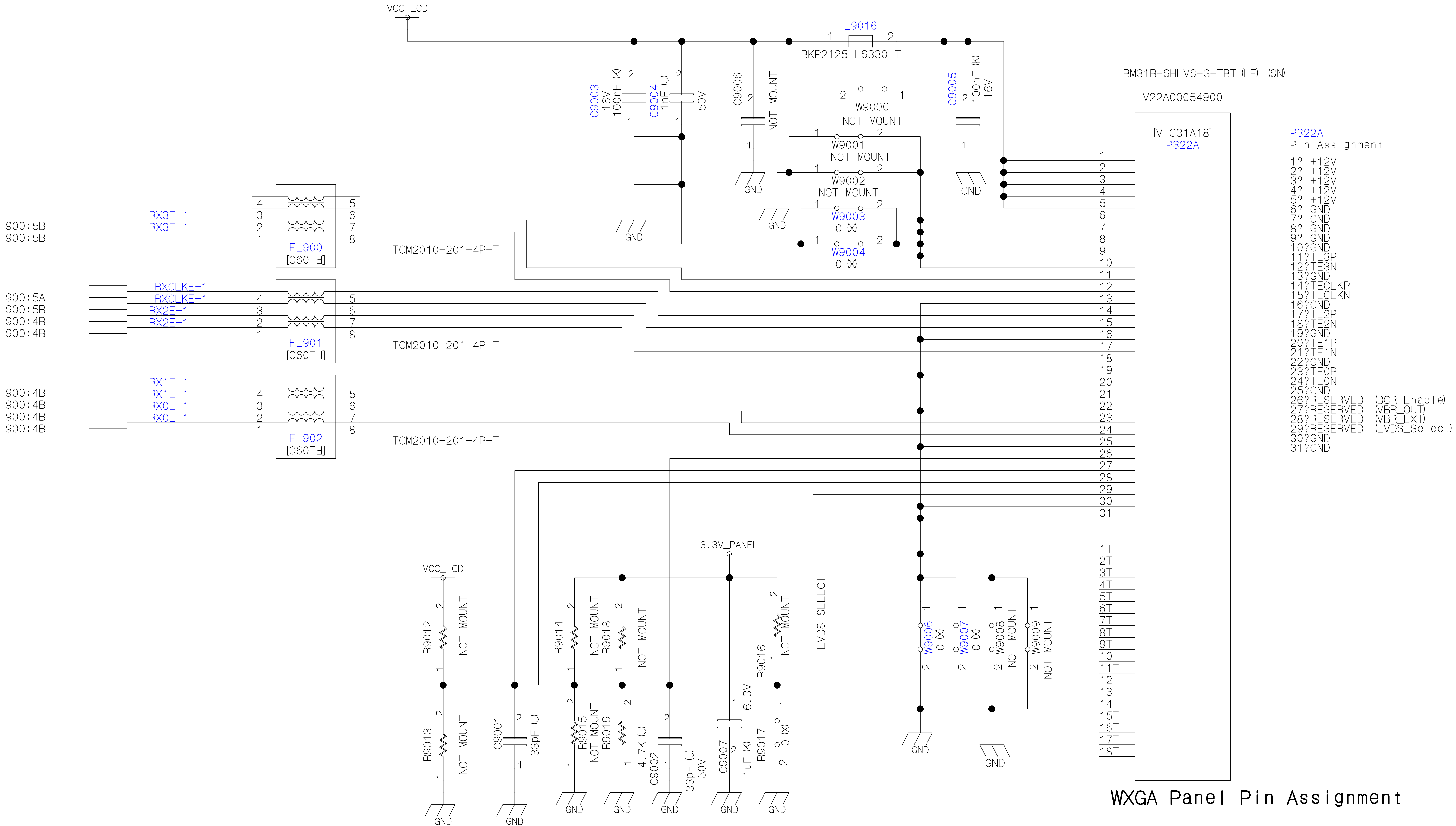

1
2
3
4
5
6
7
8
A
B
C
D
E
F
850:7C;851:2C;851:5A
5V_TUNER
R8510
3K (J)
C8518
10nF (K)
GND
850:5D
D-IF1_TUNER
R8509
0 (X)
Q8502
2SC4116-Y (TE85L, F)
R8511
1.5K (J)
ON
801:2D
D_IF_1
R8512
51 (J)
GND
R8513
0 (X)
NOT MOUNT
850:7C;851:2A;851:5A
5V_TUNER
R8515
3K (J)
C8517
10nF (K)
GND
850:5D
D-IF2_TUNER
R8514
0 (X)
Q8503
2SC4116-Y (TE85L, F)
R8516
1.5K (J)
ON
801:2D
D_IF_2
R8517
51 (J)
GND
R8518
0 (X)
NOT MOUNT
850:7C;851:2A;851:2C
5V_TUNER
NOT MOUNT
C8516
10nF (K)
NOT MOUNT
R8526
6.8K (J)
NOT MOUNT
R8522
100 (J)
NOT MOUNT
Q8505
2SC4116-Y (TE85L, F)
850:7C
SIF_TUNER
GND
NOT MOUNT
C8513
1nF (K)
NOT MOUNT
Q8504
2SC4116-Y (TE85L, F)
NOT MOUNT
R8519
3.3K (J)
NOT MOUNT
R8520
1K (J)
NOT MOUNT
C8514
1nF (K)
NOT MOUNT
R8521
1K (J)
NOT MOUNT
R8523
1K (J)
C8515
100pF (J)
ON
SIF
607:1A
R8524
6.8K (J)
ON
ON
R8525
0 (X)
GND

U03AS MAIN [851] TUNER-2 (PE0492)


[V-U32652]
8/11
IC400
LVDS_E_CH4P AC13
LVDS_E_CH4N AB13
LVDS_E_CLKP Y14 R9000 68 (J) RXCLKE+1 901:2B
LVDS_E_CLKN W14 R9001 68 (J) RXCLKE-1 901:2B
LVDS_E_CH2P AC14 R9002 68 (J) RX2E+1 901:2B
LVDS_E_CH2N AC15 R9003 68 (J) RX2E-1 901:2C
LVDS_E_CH1P AB15 R9004 68 (J) RX1E+1 901:2C
LVDS_E_CH1N AA15 R9005 68 (J) RX1E-1 901:2C
LVDS_E_CH0P Y15 R9006 68 (J) RX0E+1 901:2C
LVDS_E_CH0N W15 R9007 68 (J) RX0E-1 901:2C
LVDS_E_CH3P AB14 R9008 68 (J) RX3E+1 901:2B
LVDS_E_CH3N AA14 R9009 68 (J) RX3E-1 901:2B
1
2
GPIO_46 AC16
GPIO_45 AB16
GPIO_42 AA16
GPIO_41 Y16
GPIO_40 AA17
GPIO_39 Y17
GPIO_38 AC18
GPIO_37 AB18
GPIO_36 AA18
GPIO_35 Y18
GPIO_44 AC17
GPIO_43 AB17
PPWR Y12 R9010 100 (J) POWER_LCD 953:3D
PBIAS W12 R9011 100 (J) BL_ONOFF 902:1D

Sequoia LVDS Corrected Ball Assignment

U03AS MAIN [900] SEQUOIA LVDS_OUT (PE0492)

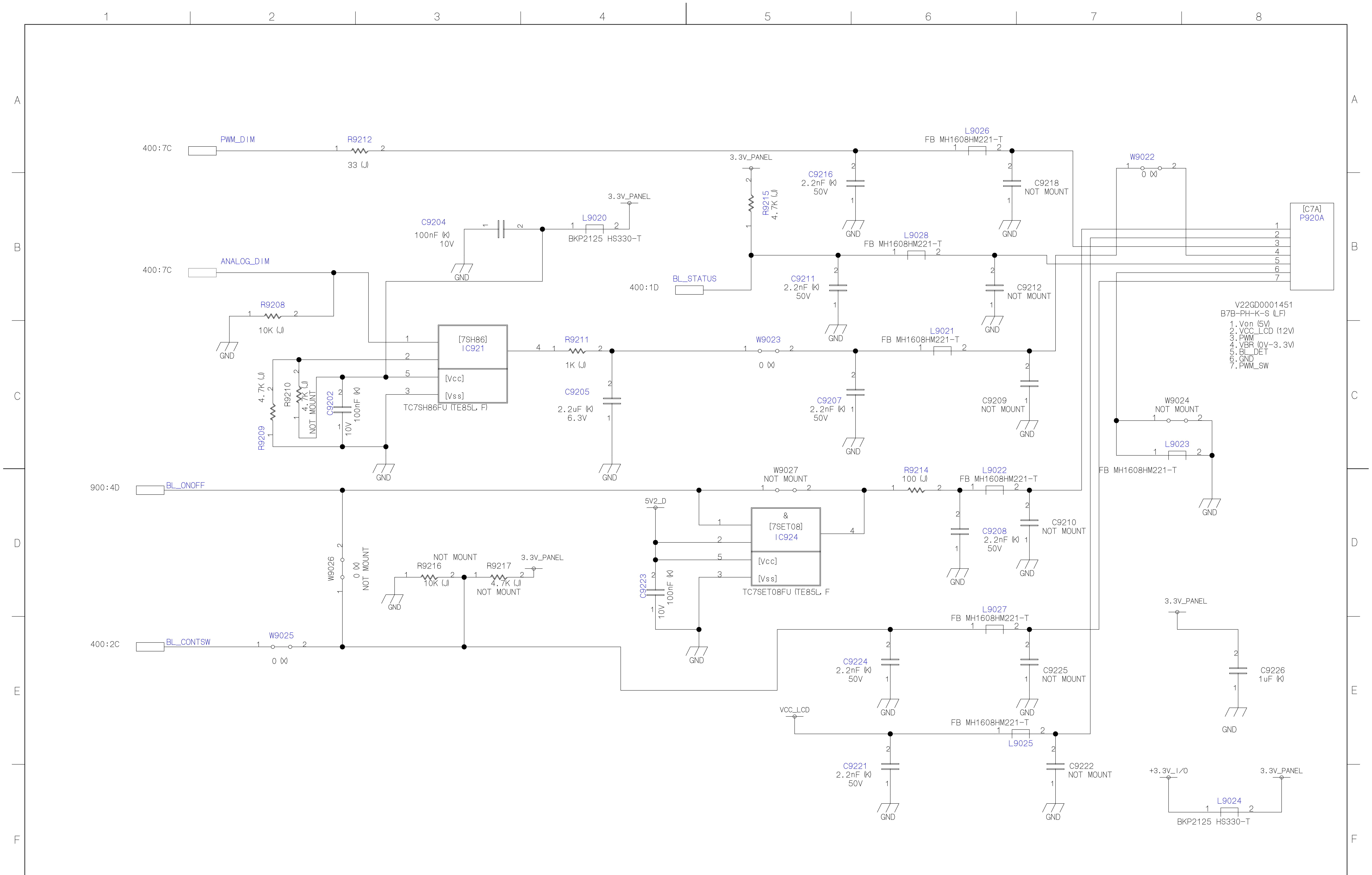

VCC_LCD
L9016
BKP2125 HS330-T
C9003 16V 100nF (K)
C9004 1nF (J) 50V
C9006 NOT MOUNT
C9005 100nF (K) 16V
W9000 NOT MOUNT
W9001 NOT MOUNT
W9002 NOT MOUNT
W9003 0 (X)
W9004 0 (X)
GND
BM31B-SHLVS-G-TBT (LF) (SN)
V22A00054900
[V-C31A18]
P322A
900:5B
900:5B
RX3E+1
RX3E-1
FL900
[FL09C]
TCM2010-201-4P-T
900:5A
900:5B
900:4B
900:4B
RXCLKE+1
RXCLKE-1
RX2E+1
RX2E-1
FL901
[FL09C]
TCM2010-201-4P-T
900:4B
900:4B
900:4B
900:4B
RX1E+1
RX1E-1
RX0E+1
RX0E-1
FL902
[FL09C]
TCM2010-201-4P-T
3.3V_PANEL
R9012 NOT MOUNT
R9013 NOT MOUNT
C9001 33pF (J)
R9014 NOT MOUNT
R9018 NOT MOUNT
R9015 NOT MOUNT
R9019 4.7K (J)
C9002 33pF (J) 50V
C9007 1uF (K) 6.3V
R9016 NOT MOUNT
R9017 0 (X)
LVDS SELECT
W9006 0 (X)
W9007 0 (X)
W9008 NOT MOUNT
W9009 NOT MOUNT
1T 2T 3T 4T 5T 6T 7T 8T 9T 10T 11T 12T 13T 14T 15T 16T 17T 18T

P322A
Pin Assignment

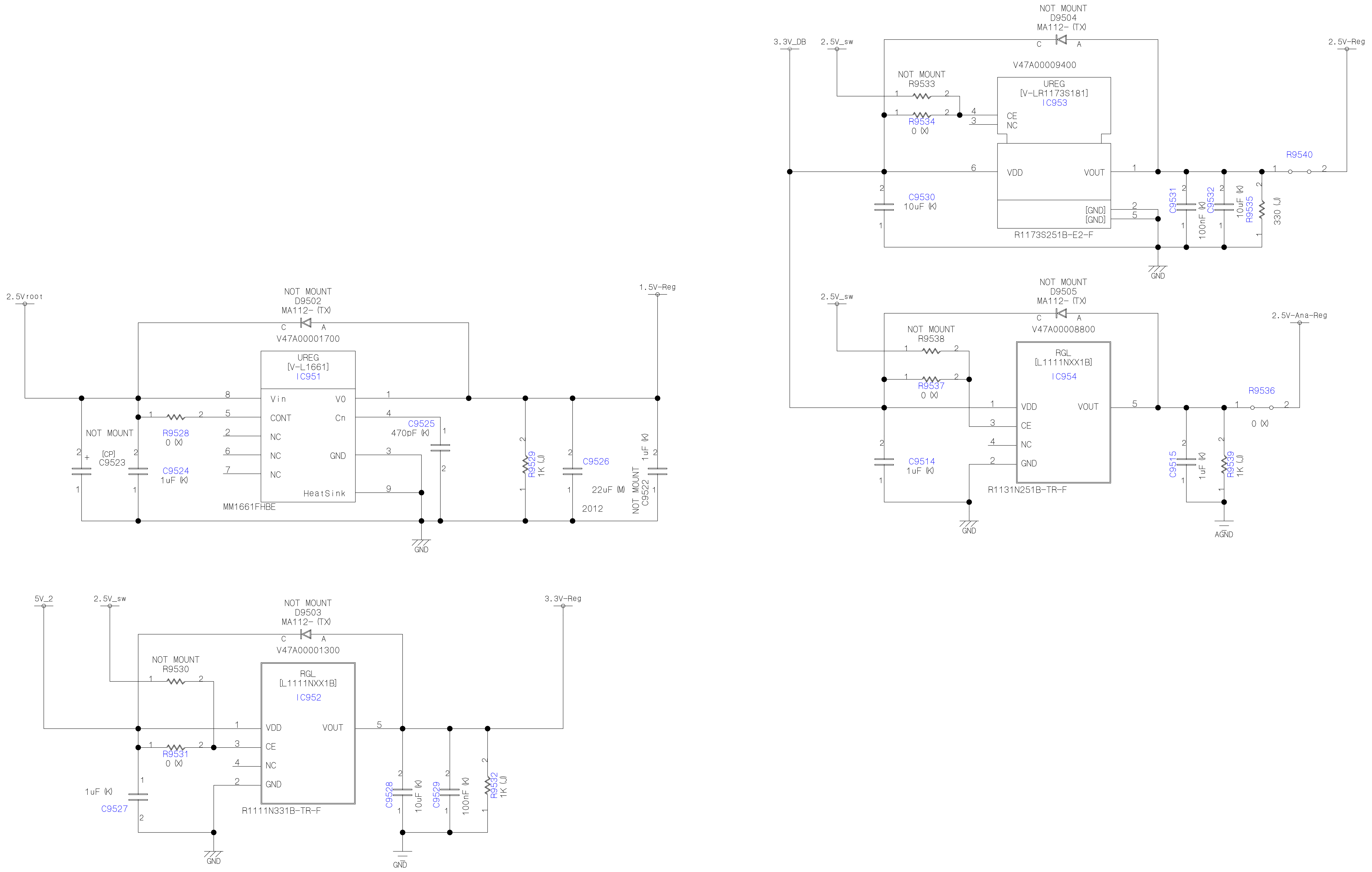
1? +12V
2? +12V
3? +12V
4? +12V
5? +12V
6? GND
7? GND
8? GND
9? GND
10?GND
11?TE3P
12?TE3N
13?GND
14?TECLKP
15?TECLKN
16?GND
17?TE2P
18?TE2N
19?GND
20?TE1P
21?TE1N
22?GND
23?TE0P
24?TE0N
25?GND
26?RESERVED (DCR Enable)
27?RESERVED (VBR_OUT)
28?RESERVED (VBR_EXT)
29?RESERVED (LVDS_Select)
30?GND
31?GND

WXGA Panel Pin Assignment
Connector : BM31B-SHLVS-G
Device : Sequoia

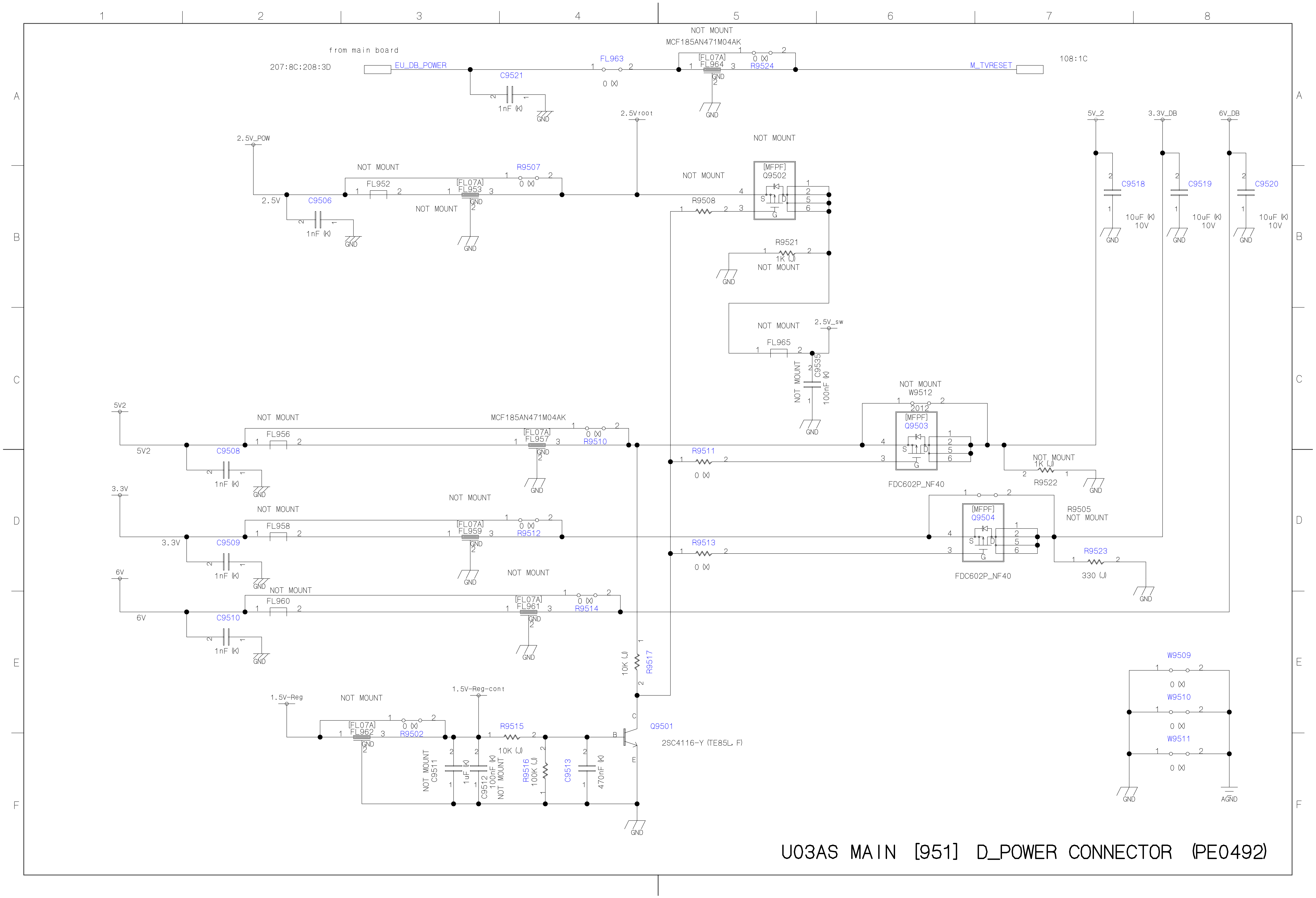
U03AS MAIN [901] LVDS CONNECTOR (PE0492)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
400:7C
PWM_DIM
R9212
33 (J)
L9026
FB MH1608HM221-T
3.3V_PANEL
C9216
2.2nF (K)
50V
C9218
NOT MOUNT
W9022
0 (X)
R9215
4.7K (J)
C9204
100nF (K)
10V
L9020
BKP2125 HS330-T
L9028
FB MH1608HM221-T
[C7A]
P920A
400:7C
ANALOG_DIM
400:1D
BL_STATUS
C9211
2.2nF (K)
50V
C9212
NOT MOUNT
R9208
10K (J)
V22GD0001451
B7B-PH-K-S (LF)
1.Von (5V)
2.VCC_LCD (12V)
3.PWM
4.VBR (0V-3.3V)
5.BL_DET
6.GND
7.PWM_SW
[7SH86]
IC921
[Vcc]
[Vss]
TC7SH86FU (TE85L, F)
R9211
1K (J)
W9023
0 (X)
L9021
FB MH1608HM221-T
R9209
4.7K (J)
R9210
4.7K (J)
NOT MOUNT
C9202
100nF (K)
10V
C9205
2.2uF (K)
6.3V
C9207
2.2nF (K)
50V
C9209
NOT MOUNT
W9024
NOT MOUNT
L9023
FB MH1608HM221-T
900:4D
BL_ONOFF
W9027
NOT MOUNT
R9214
100 (J)
L9022
FB MH1608HM221-T
5V2_D
&
[7SET08]
IC924
[Vcc]
[Vss]
TC7SET08FU (TE85L, F)
C9208
2.2nF (K)
50V
C9210
NOT MOUNT
W9026
0 (X)
NOT MOUNT
NOT MOUNT
R9216
10K (J)
R9217
4.7K (J)
NOT MOUNT
3.3V_PANEL
C9223
100nF (K)
10V
400:2C
BL_CONTSW
W9025
0 (X)
L9027
FB MH1608HM221-T
C9224
2.2nF (K)
50V
C9225
NOT MOUNT
3.3V_PANEL
C9226
1uF (K)
VCC_LCD
FB MH1608HM221-T
L9025
C9221
2.2nF (K)
50V
C9222
NOT MOUNT
+3.3V_I/O
3.3V_PANEL
L9024
BKP2125 HS330-T
GND

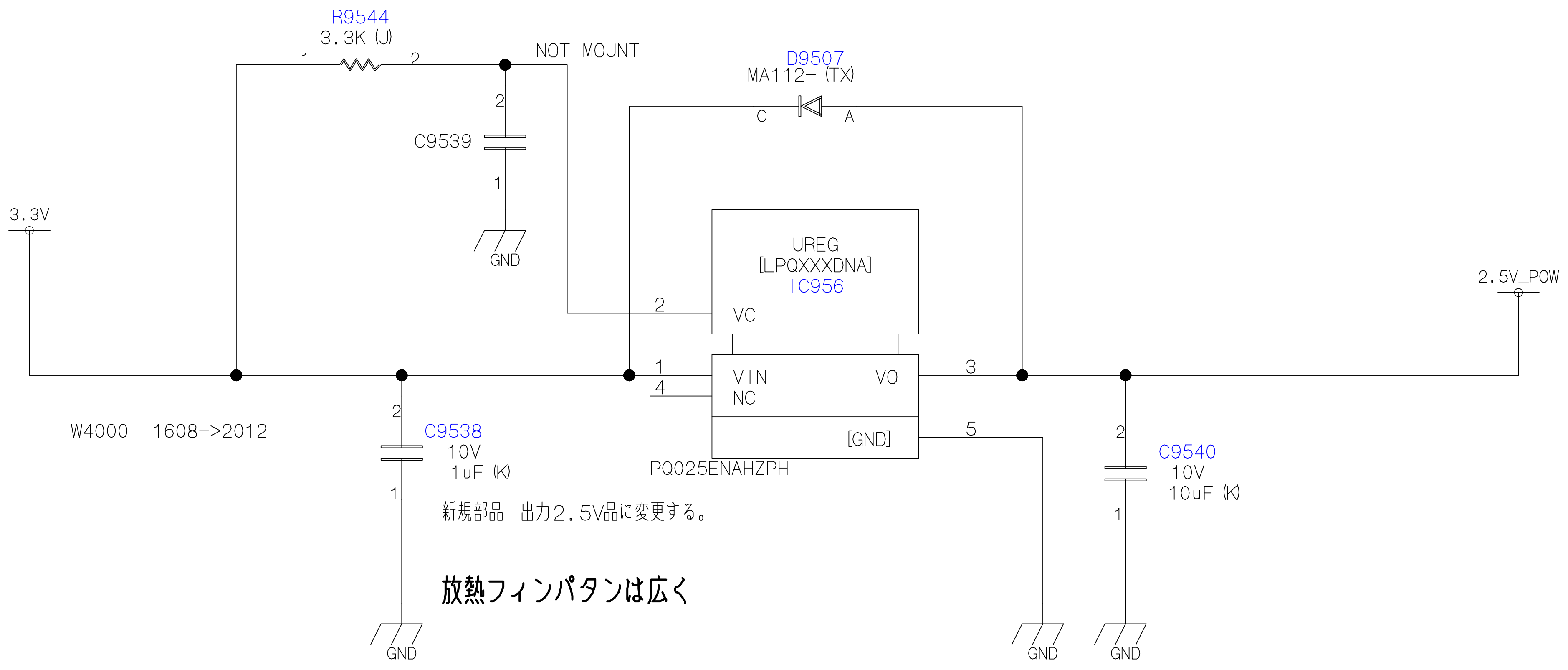
U03AS MAIN [902] Power Connector and Dimming (PE0492)


NOT MOUNT
D9504
MA112- (TX)
3.3V_DB
2.5V_sw
2.5V-Reg
NOT MOUNT
R9533
V47A00009400
UREG
[V-LR1173S181]
IC953
CE
NC
R9534
0 (X)
VDD
VOUT
[GND]
[GND]
R1173S251B-E2-F
C9530
10uF (K)
C9531
100nF (K)
C9532
10uF (K)
R9535
330 (J)
R9540
GND
NOT MOUNT
D9505
MA112- (TX)
2.5V_sw
2.5V-Ana-Reg
NOT MOUNT
R9538
V47A00008800
RGL
[L1111NXX1B]
IC954
R9537
0 (X)
VDD
VOUT
CE
NC
GND
R1131N251B-TR-F
C9514
1uF (K)
C9515
1uF (K)
R9539
1K (J)
R9536
0 (X)
GND
AGND
2.5Vroot
NOT MOUNT
D9502
MA112- (TX)
1.5V-Reg
V47A00001700
UREG
[V-L1661]
IC951
Vin
VO
CONT
Cn
NC
NC
GND
NC
HeatSink
MM1661FHBE
NOT MOUNT
[CP]
C9523
R9528
0 (X)
C9524
1uF (K)
C9525
470pF (K)
R9529
1K (J)
C9526
22uF (M)
2012
NOT MOUNT
C9522
1uF (K)
GND
5V_2
2.5V_sw
NOT MOUNT
D9503
MA112- (TX)
3.3V-Reg
V47A00001300
NOT MOUNT
R9530
RGL
[L1111NXX1B]
IC952
VDD
VOUT
CE
NC
GND
R9531
0 (X)
R1111N331B-TR-F
1uF (K)
C9527
GND
C9528
10uF (K)
C9529
100nF (K)
R9532
1K (J)
GND
1
2
3
4
5
6
7
8
A
B
C
D
E
F

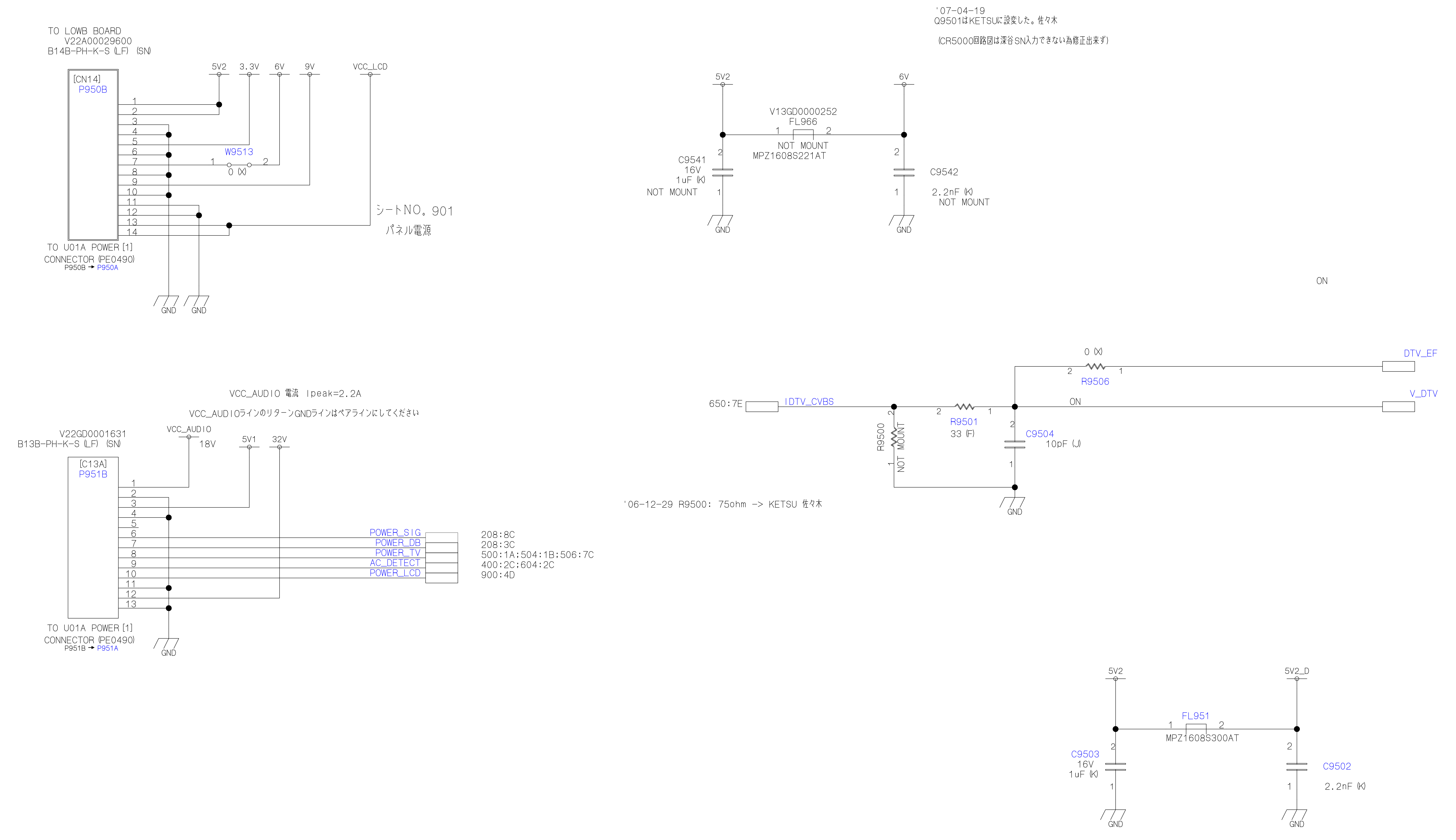
U03AS MAIN [950] POWER REGURATOR (PE0492)


from main board
207:8C:208:3D
EU_DB_POWER
C9521
1nF (K)
FL963
0 (X)
NOT MOUNT
MCF185AN471M04AK
[FL07A]
FL964
R9524
0 (X)
M_TVRESET
108:1C
GND
2.5Vroot
2.5V_POW
2.5V
C9506
1nF (K)
NOT MOUNT
FL952
[FL07A]
FL953
R9507
0 (X)
NOT MOUNT
[MFPF]
Q9502
R9508
R9521
1K (J)
NOT MOUNT
NOT MOUNT
FL965
2.5V_sw
C9535
100nF (K)
NOT MOUNT
5V_2
3.3V_DB
6V_DB
C9518
10uF (K)
10V
C9519
10uF (K)
10V
C9520
10uF (K)
10V
5V2
NOT MOUNT
FL956
C9508
1nF (K)
MCF185AN471M04AK
[FL07A]
FL957
0 (X)
R9510
NOT MOUNT
W9512
2012
[MFPF]
Q9503
FDC602P_NF40
R9511
0 (X)
NOT MOUNT
1K (J)
R9522
3.3V
NOT MOUNT
FL958
C9509
1nF (K)
NOT MOUNT
[FL07A]
FL959
0 (X)
R9512
[MFPF]
Q9504
FDC602P_NF40
R9513
0 (X)
R9505
NOT MOUNT
R9523
330 (J)
6V
NOT MOUNT
FL960
C9510
1nF (K)
NOT MOUNT
[FL07A]
FL961
0 (X)
R9514
10K (J)
R9517
1.5V-Reg
NOT MOUNT
[FL07A]
FL962
0 (X)
R9502
1.5V-Reg-cont
R9515
10K (J)
NOT MOUNT
C9511
1uF (K)
C9512
100nF (K)
NOT MOUNT
R9516
100K (J)
C9513
470nF (K)
Q9501
2SC4116-Y (TE85L, F)
W9509
0 (X)
W9510
0 (X)
W9511
0 (X)
GND
AGND
1
2
3
4
5
6
7
8
A
B
C
D
E
F

U03AS MAIN [951] D_POWER CONNECTOR (PE0492)


R9544
3.3K (J)
1
2
NOT MOUNT
2
C9539
1
GND
D9507
MA112- (TX)
C
A
3.3V
UREG
[LPQXXXDNA]
IC956
2
VC
1
4
VIN
NC
VO
3
[GND]
5
2.5V_POW
W4000 1608->2012
2
C9538
10V
1uF (K)
1
PQ025ENAHZPH
新規部品 出力2.5V品に変更する。
放熱フィンパタンは広く
GND
GND
GND
2
C9540
10V
10uF (K)
1

U03AS MAIN [962] D_POWER REGURETOR (PE0492)


'07-04-19
Q9501はKETSUに設変した。佐々木

(CR5000回路図は深谷SN入力できない為修正出来ず)

VCC_AUDIO 電流 Ipeak=2.2A

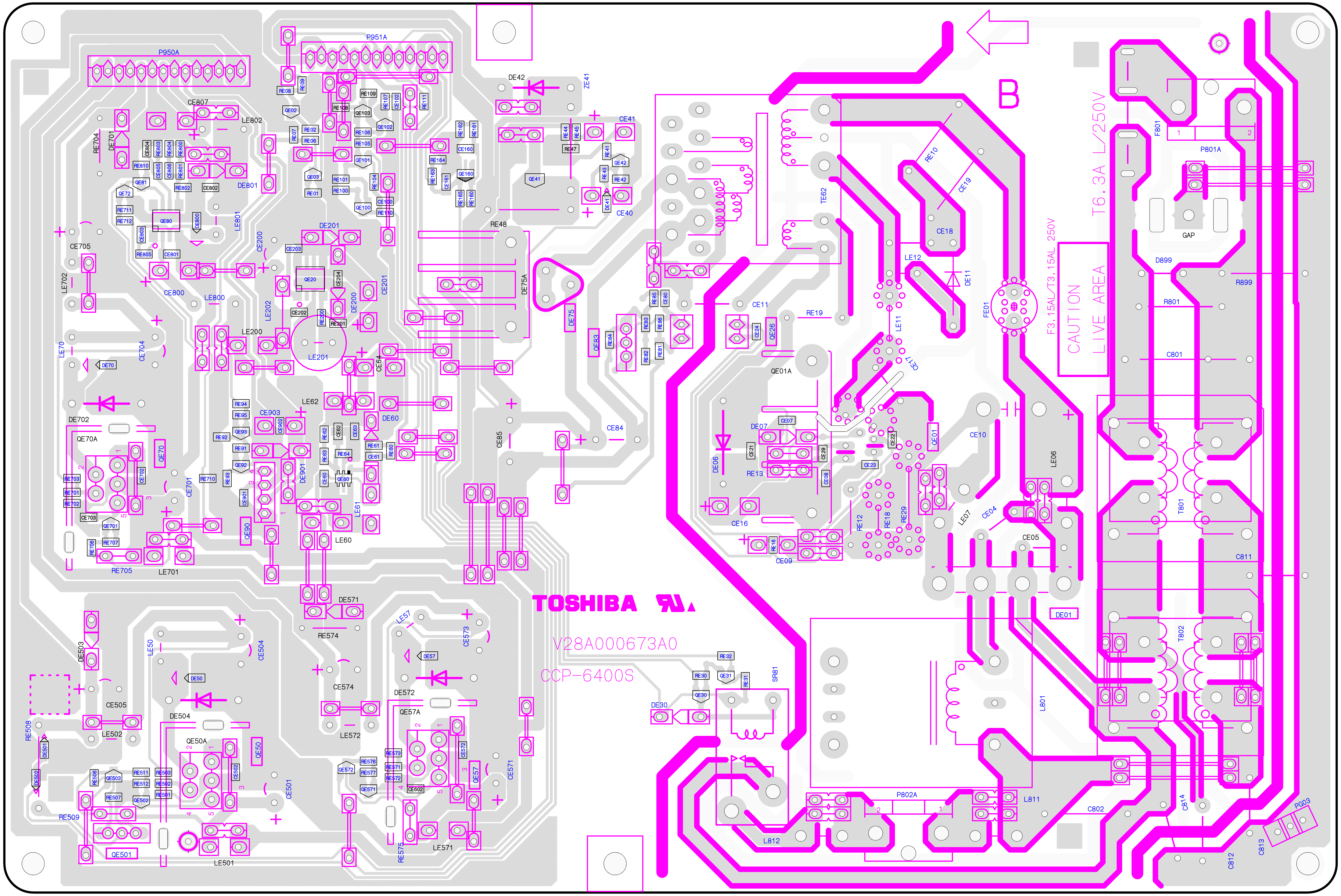
VCC_AUDIOラインのリターンGNDラインはペアラインにしてください

'06-12-29 R9500: 75ohm -> KETSU 佐々木

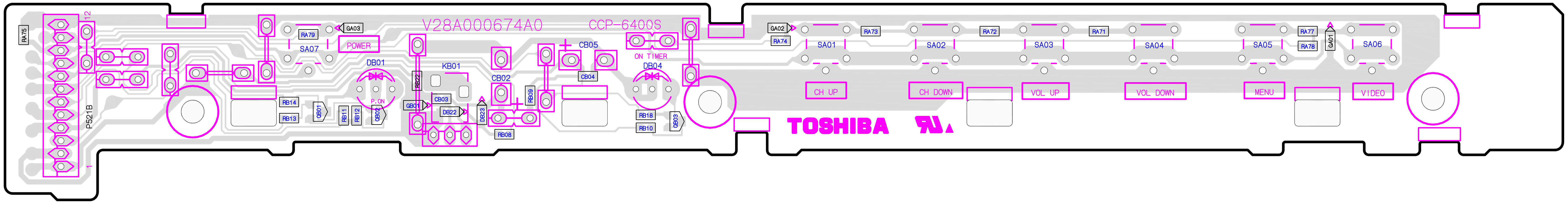
TO LOWB BOARD
V22A00029600
B14B-PH-K-S (LF) (SN)
[CN14]
P950B
5V2
3.3V
6V
9V
VCC_LCD
W9513
0 (X)
シートNO。901
パネル電源
TO U01A POWER [1]
CONNECTOR (PE0490)
P950B → P950A
GND
V22GD0001631
B13B-PH-K-S (LF) (SN)
[C13A]
P951B
VCC_AUDIO
18V
5V1
32V
POWER_SIG
POWER_DB
POWER_TV
AC_DETECT
POWER_LCD
208:8C
208:3C
500:1A:504:1B:506:7C
400:2C:604:2C
900:4D
TO U01A POWER [1]
CONNECTOR (PE0490)
P951B → P951A
V13GD0000252
FL966
NOT MOUNT
MPZ1608S221AT
C9541
16V
1uF (K)
NOT MOUNT
C9542
2.2nF (K)
NOT MOUNT
ON
0 (X)
R9506
DTV_EF
650:7E
IDTV_CVBS
R9500
NOT MOUNT
R9501
33 (F)
ON
V_DTV
C9504
10pF (J)
5V2
5V2_D
FL951
MPZ1608S300AT
C9503
16V
1uF (K)
C9502
2.2nF (K)

U03AS MAIN [953] SIGNAL/LOWB B-B (PE0492)

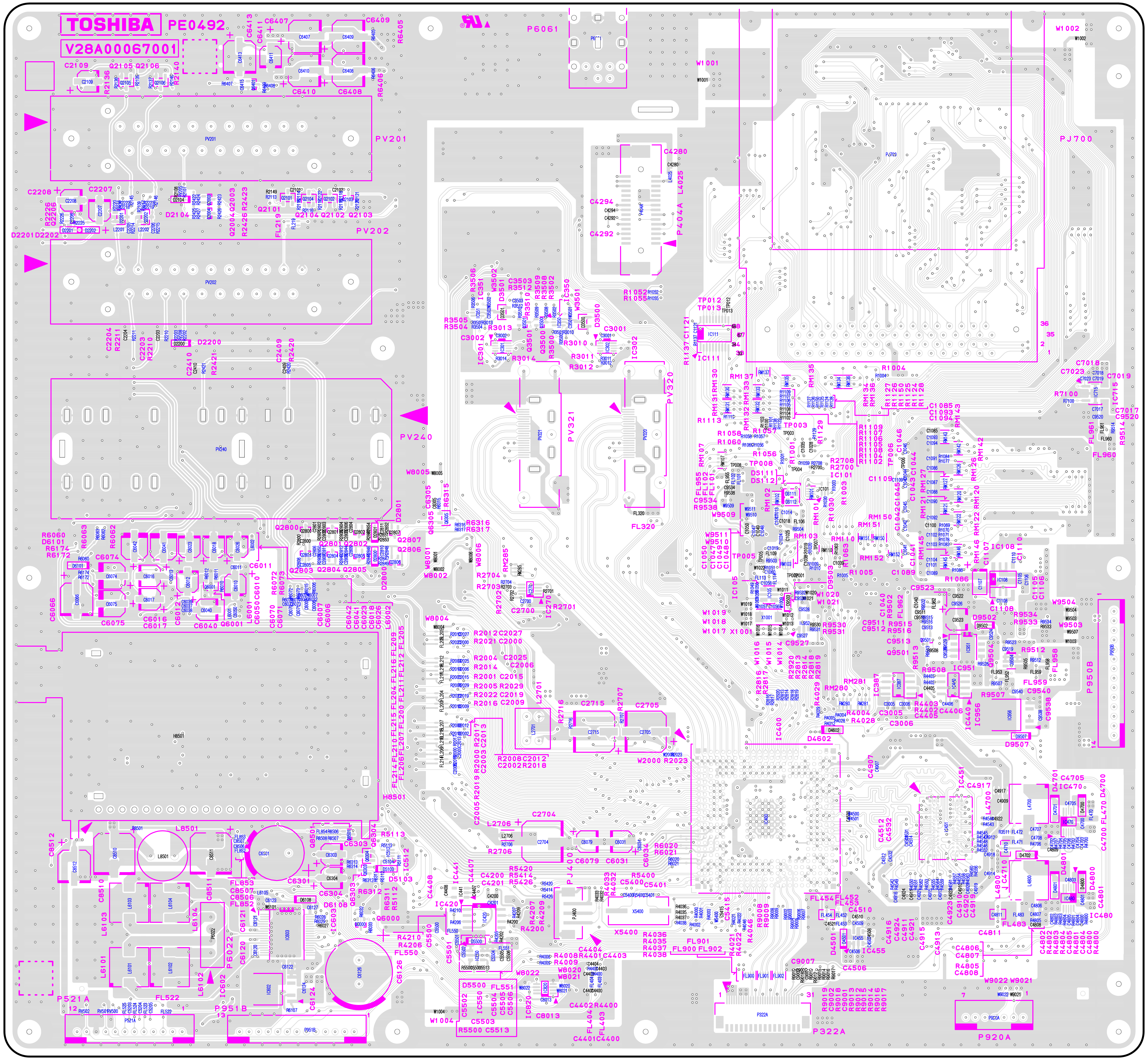
U01A POWER [Bottom] (PE0490)


P950A
P951A
DE42
ZE41
CE41
CE40
RE48
DE75A
DE75
CE807
LE802
RE704
DE701
DE801
LE801
CE705
LE702
CE800
LE800
CE200
DE201
LE202
LE200
CE202
LE201
CE201
DE200
LE70
CE704
DE70
DE702
QE70A
QE70
CE702
CE701
RE710
RE705
LE701
CE903
LE62
DE60
CE64
CE85
CE84
DE901
QE90
LE61
LE60
DE571
RE574
LE57
CE573
DE57
CE574
DE572
QE57A
LE572
CE572
QE57
CE571
RE575
LE571
LE50
CE504
DE50
DE503
CE505
DE504
QE50A
LE502
QE50
CE501
RE508
RE509
QE501
LE501
TOSHIBA
V28A000673A0
CCP-6400S
RE32
RE30
QE31
RE31
SR81
QE30
DE30
TE62
RE10
CE19
CE18
LE12
DE11
FE01
LE11
CE17
CE11
RE19
QE01A
DE07
DE06
RE13
CE16
CE09
RE12
RE18
RE29
LE07
CE04
CE05
QE01
CE10
LE06
DE01
L801
T801
T802
C811
C801
R801
R899
D899
GAP
P801A
F801
B
T6.3A L/250V
F3.15AL/T3.15AL 250V
CAUTION
LIVE AREA
L811
C802
L812
P802A
C814
C812
C813
PG03

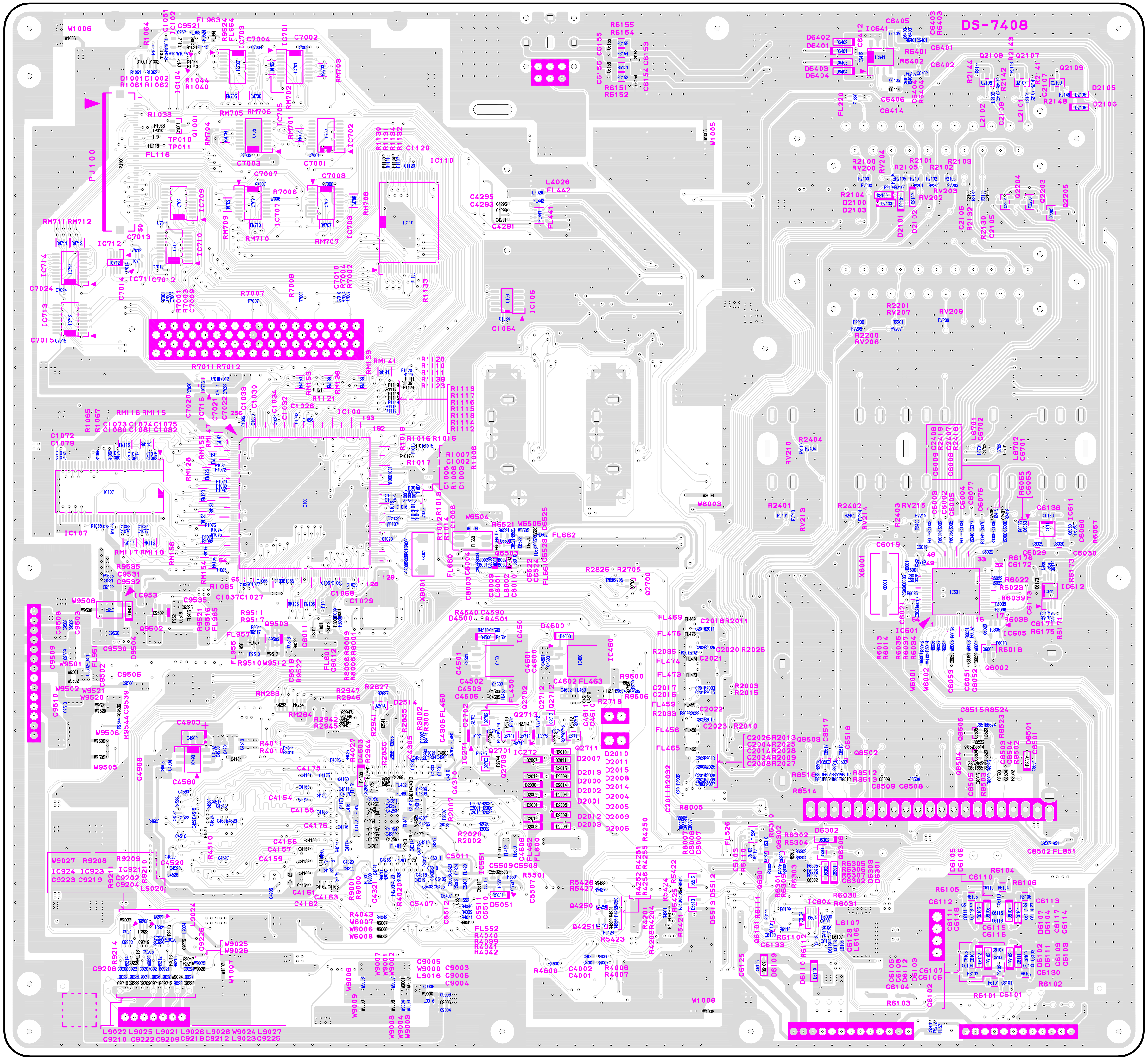
U02A KEY/LED/RMT [Bottom] (PE0491)


RA75
12
1
P521B
GA03
RA79
SA07
POWER
V28A000674A0
CCP-6400S
DB01
P.ON
RB14
RB13
QB01
RB11
RB12
QB02
RB22
KB01
GB01
CB03
DB22
DB23
CB02
RB08
RB09
CB05
CB04
ON TIMER
DB04
RB18
RB10
QB03
GA02
RA74
SA01
RA73
CH UP
SA02
RA72
CH DOWN
SA03
RA71
VOL UP
SA04
VOL DOWN
SA05
RA77
RA78
GA01
MENU
SA06
VIDEO
TOSHIBA

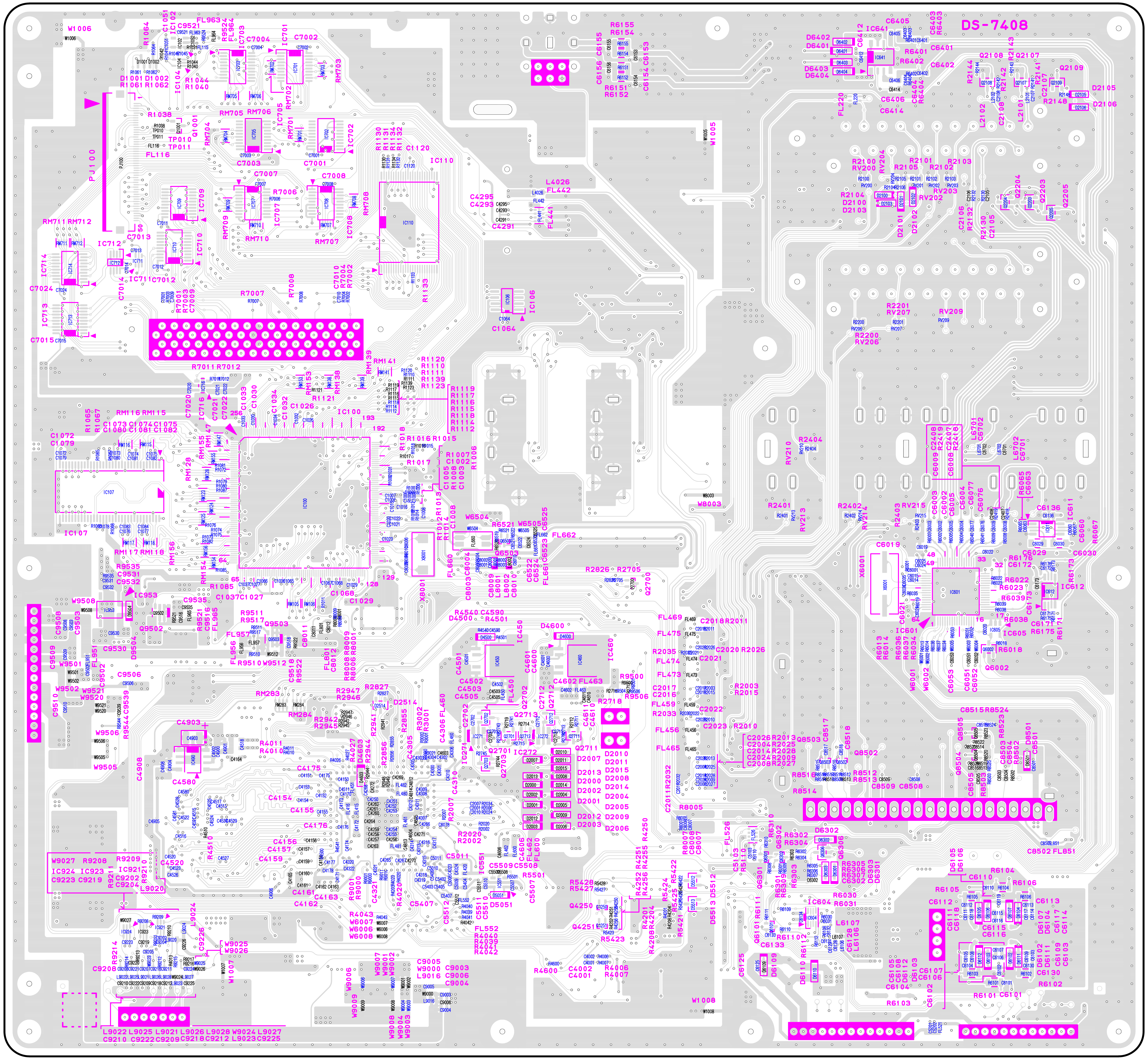
U03AS MAIN [Top] (PE0492)


TOSHIBA
PE0492
V28A00067001
PV201
PV202
PV240
PV320
PV321
P6061
PJ700
P404A
P950B
P521A
P951B
P322A
P920A
PJ400
W1001
W1002
H8501
FL320
IC111
IC101
IC108
IC951
IC302
IC301
IC400
IC401
IC470
IC451
L8501
C8501
C6126
D4602
D9507
X1001
X5400

U03AS MAIN [Bottom] (PE0492)


DS-7408
PJ100
IC110
IC100
IC107
IC601
IC612
X6001
X8001

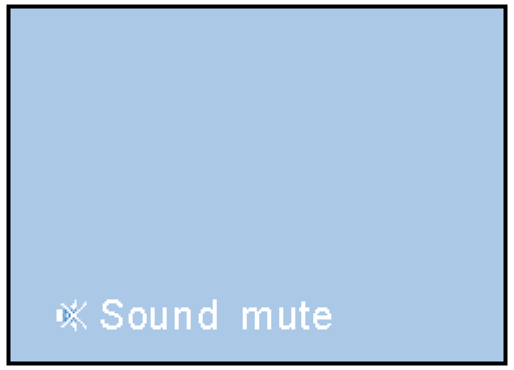
U03AS MAIN [Bottom] (PE0492)


DS-7408
W1006
PJ100
FL963
C7004
C7002
IC701
IC703
RM703
R1038
TP010
TP011
FL116
RM705
RM706
IC705
IC702
C7003
C7001
C7007
C7008
R7006
RM711
RM712
IC712
C7013
IC714
C7024
IC713
C7015
IC709
IC710
IC708
RM708
RM710
RM707
IC711
C7012
R7007
R7008
R7011
R7012
R1130
R1131
R1132
C1120
IC110
C4295
C4293
C4291
L4026
FL442
FL441
IC106
C1064
R6155
R6154
R6151
R6152
C6155
C6154
C6156
C6153
W1005
D6402
D6401
D6403
D6404
C6412
IC641
C6405
C6403
R6401
R6402
C6401
C6402
C6406
C6414
FL220
Q2108
Q2107
Q2109
R2144
R2142
R2143
R2141
D2105
D2106
R2100
RV200
R2105
R2101
R2102
R2103
R2104
D2100
D2103
RV203
RV202
Q2204
Q2203
Q2205
R2201
RV207
RV209
R2200
RV206
RM116
RM115
R1065
R1067
C1072
C1079
C1073
C1074
C1075
C1080
C1081
C1082
IC107
RM117
RM118
R9535
C9531
C9532
IC953
C9535
W9508
C9508
C9503
Q9502
C9530
W9501
C9506
W9502
W9521
W9520
W9506
W9505
C9510
C9509
IC100
R1016
R1015
R1017
R1007
C1002
R1006
R1085
C1037
C1027
C1068
C1029
X8001
W6504
R6521
W6505
C6525
FL662
FL660
R2826
R2705
Q2700
R4540
C4590
D4500
R4501
D4600
IC450
IC460
C4502
C4503
C4505
C4602
FL463
R9500
R9506
R2718
Q2713
Q2711
Q2701
IC272
D2010
D2011
D2007
D2013
D2000
D2002
D2001
D2012
D2003
D2015
D2008
D2014
D2004
D2005
D2009
D2006
FL469
FL475
FL474
FL473
FL459
FL456
FL465
C2018
R2011
R2035
C2020
R2026
C2021
C2017
C2016
R2003
R2015
R2033
C2022
C2023
R2010
C2026
R2013
Q8503
C8517
C8518
Q8502
R8512
R8513
C8509
C8508
R8514
C8515
R8524
C8502
FL851
R9005
IC601
X6001
C6019
R6022
R6023
R6039
R6038
R6018
Q6002
IC605
IC611
IC612
C6136
R6067
C6030
L6701
C6702
L6702
C6701
RV210
R2404
R2401
RV213
R2402
RV214
RV215
R2403
W8003
C4903
C4580
C4175
C4154
C4155
C4176
C4156
C4157
C4159
C4520
W9027
R9208
R9209
IC924
IC923
C9223
C9219
IC9210
C9202
C9204
L9020
R9214
C9208
W9025
W9026
W1007
L9022
L9025
L9021
L9026
L9028
W9024
L9027
C9210
C9222
C9209
C9218
C9212
L9023
C9225
W9006
W9009
W9007
W9002
W9001
W9008
W9004
W9003
C9005
W9000
L9016
C9003
C9006
C9004
R4043
W6007
W6006
W6008
C4162
C4163
C5407
C5509
C5508
R5501
C5511
C5510
D5051
FL552
R4040
R4039
R4041
R4042
R5428
R5427
Q4250
Q4251
R5423
R4201
R4204
R4208
R5421
R4600
C4002
C4001
R4006
R4007
W1008
D6302
R6302
R6304
R6303
R6305
R6306
R6307
R6030
R6031
IC604
L6107
L6108
R6110
C6133
R6104
R6105
R6106
C6110
C6112
C6113
C6115
C6116
C6107
C6106
C6130
R6101
C6101
R6102
R6103
D6105
D6106
C6125

ADJUSTMENT

Service Mode

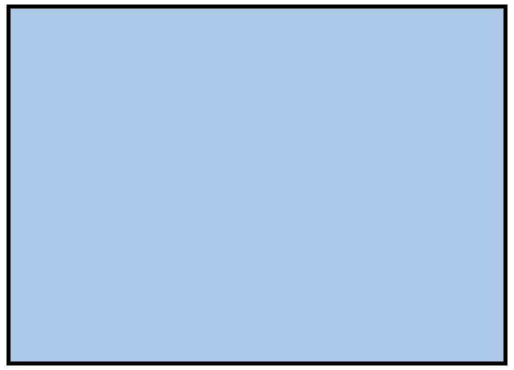
Entering to Service Mode



🔇 Sound mute

1. Set VOLUME to minimum and press 🔇 button once on remote control.

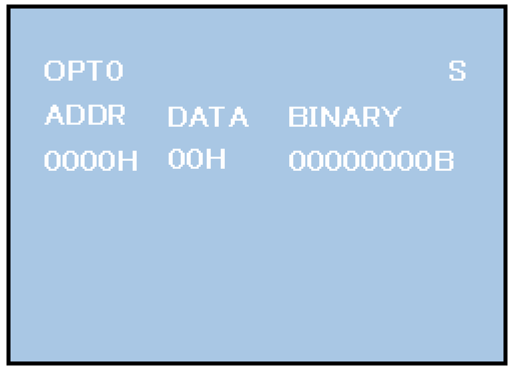
↓



2. Press 🔇 button again and hold button down.

↓

Service Mode display



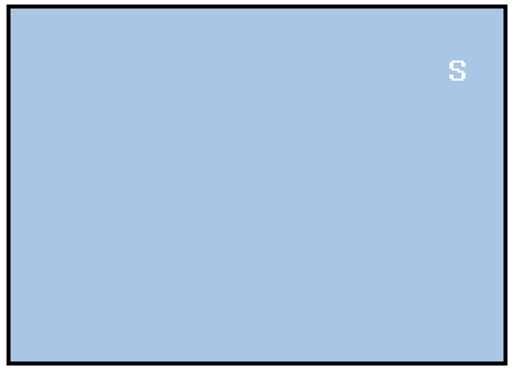
```
OPT0                          S
ADDR    DATA    BINARY
0000H   00H     00000000B
```

3. While holding the 🔇 button, press MENU button on TV set.

Displaying the Adjustment Menu

Press MENU button on TV.

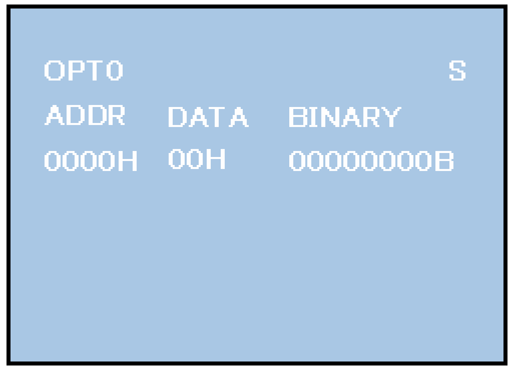
Service Mode



```
                              S
```

Press ↑ ↓ Press

Adjustment Mode



```
OPT0                          S
ADDR     DATA     BINARY
0000H    00H      00000000B
```

Key Function in the Service Mode

The following key entry during display of adjustment menu provides special functions.

CAUTION: Never try to perform initialization unless you have changed the memory IC.

	→ button (on remote control)

Test signal selection	
Selection of the adjustment items	CH ▲/▼ (on TV or remote control)
Change of the data value	Volume ◿ +/- (on TV or remote control)
Adjustment menu mode ON/OFF	MENU button (on TV)
Initialization of the memory (QA02)	CALL + CH ▲ button on TV
Reset the count of operating protect circuit to "00"	CALL + CH ▼ button on TV
Turn off I2C bus communication	CALL + Volume ◿ + button on TV
"RCUT" selection	1 button
"GCUT" selection	2 button
"BCUT" selection	3 button
"CNTX" selection	4 button
"COLC" selection	5 button
"UVTT" selection	6 button
Automatic A/D Adjustment (PC, Component, Composite (PAL, NTSC))	7 button
Self diagnostic display ON/OFF	9 button

Selecting the Adjusting Item

Every pressing of CH ▲ button in the service mode changes the adjustment items in the order of table below. (▼ button for reverse order)

SETTING & ADJUSTING DATA

[SERVICE MODE]

ADJUSTING ITEMS AND DATA IN THE SERVICE MODE:

Note:

The image system data of RCUT-BDRV is different by each image format.
The PAL value is indicated in the table.
Never adjust H.POS and V.POS except PAL/WIDE mode.

Item	Name of adjustment
RCUT	R CUT OFF
GCUT	G CUT OFF
BCUT	B CUT OFF
RDRV	R DRIVE
GDRV	G DRIVE
BDRV	B DRIVE
BRTC	BRIGHTNESS CENTER
COLC	COLOR CENTER
UVTT	BASE BAND TINT
CNTX	CONTRAST MAX
VOLUX	MAX VOLUME LIMITED
PLLW0	PLL WAIT TIME
PLLW1	PLL WAIT TIME
PLLW2	PLL WAIT TIME
PLLW3	PLL WAIT TIME
PLLW4	PLL WAIT TIME
PLLW5	PLL WAIT TIME
OPT1	TV SET OPTION 1
OPT2	TV SET OPTION 2
OPT3	TV SET OPTION 3
OPT4	TV SET OPTION 4 (PANEL OPT DATA FOR VENDOR)
OPT5	TV SET OPTION 5 (PANEL OPT DATA FOR SIZE)
OPT6	TV SET OPTION 6 (HOTEL MODE)
OPT7	TV SET OPTION 7 (HOTEL MODE)
OPT8	TV SET OPTION 8 (HOTEL MODE)
TVOP	TV SET OPTION
ID	MODEL ID
BDWID	BORDER WIDTH FOR EXACT SCAN
BDHIT	BORDER HEIGHT FOR EXACT SCAN

Factory preset data will be loaded after setting Model ID data.
(Refer to Initialization of Memory Data of QA02 and setting data of signal board.)

Adjusting the Data

Pressing of VOLUME ⊿ +/- button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

I2C Bus Off

Turn off I2C communication between IC700 and IC400.

1) Press and hold the CALL button on the remote control, then press the Volume ⊿ + button on the TV.

2) Display "BUS Off" OSD.

3) I2C communication turned off.

Note:

To return Bus on status, press and hold the CALL button on the remote control, then press the Volume ⊿ + button on the TV again. TV will be turned off and automatically turned on, then status will be Bus On.

Setting TVOP

Enter to service mode and select menu of TVOP by pressing P▲ or P▼ during display of adjustment menu. After selecting TVOP, press ⊿ + or ⊿ - to set I2C check function to disable or enable as below.

TVOP	FUNCTION DESCRIPTION	1	0 (Normal)
D5 (bit5)	I2C check between IC700 and IC400. (WDT)	Disable	Enable

Setting Panel Option Data

Panel option data is subject to OP4 and OP5.

Enter to service mode and select menu of OPT4 or OPT5 by pressing P▲ or P▼ during display of adjustment menu. After selecting OPT4 or OPT5, press ⊿+ or ⊿- to set OPT4 or OPT5 value as table below.

Panel option data

Series		Model name	Panel vendor	OPT4 value	OPT5 value
A505D	EU Digital	32AV505D	IPS	0x07	0x65
		37AV505D	IPS	0x07	0x66
		42AV505D	LPL	0x01	0x67
			AUO	0x05	0x87

OP4

Ex. OPT4 value 0x05 indicates that panel vendor is AUO AMVA.

		OPT4							
		D7 (bit7)	**D6 (bit6)**	**D5 (bit5)**	**D4 (bit4)**	**D3 (bit3)**	**D2 (bit2)**	**D1 (bit1)**	**D0 (bit0)**
Panel vendor	LPL	-	-	-	-	0	0	0	1
	SHP	-	-	-	-	0	0	1	0
	CMO	-	-	-	-	0	0	1	1
	AUO PMVA	-	-	-	-	0	1	0	0
	AUO AMVA	-	-	-	-	0	1	0	1
	SAMSUNG	-	-	-	-	0	1	1	0
	IPS	-	-	-	-	0	1	1	1

OP5

Ex. OPT5 value 0x06 indicates that panel size is 37.

		OPT5							
		D7 (bit7)	**D6 (bit6)**	**D5 (bit5)**	**D4 (bit4)**	**D3 (bit3)**	**D2 (bit2)**	**D1 (bit1)**	**D0 (bit0)**
Size	26	-	-	-	-	0	0	1	1
	32	-	-	-	-	0	1	0	1

	37	-	-	-	-	0	1	1	0
	42	-	-	-	-	0	1	1	1

Convert from Bit (Binary) to Hex

The table for converting from bit (D7-D0) to hex (0x**).

		BIT (Binary)			
High nibble		**D7**	**D6**	**D5**	**D4**
Low nibble		**D3**	**D2**	**D1**	**D0**
HEX	**0**	0	0	0	0
	1	0	0	0	**1**
	2	0	0	**1**	0
	3	0	0	**1**	**1**
	4	0	**1**	0	0
	5	0	**1**	0	**1**
	6	0	**1**	**1**	0
	7	0	**1**	**1**	**1**
	8	**1**	0	0	0
	9	**1**	0	0	**1**
	A	**1**	0	**1**	0
	B	**1**	0	**1**	**1**
	C	**1**	**1**	0	0
	D	**1**	**1**	0	**1**
	E	**1**	**1**	**1**	0
	F	**1**	**1**	**1**	**1**

E.g. If Bit D7-0 = 0**1**0**1** **1**0**1**0, Hex data is 0x**5A**.

Exit from Service Mode

Pressing POWER button to turn off the TV once.

Initialization of Memory Data of QA02 and Setting Data of Signal Unit

After replacing QA02 or signal board, the following initialization is required.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.
Whenever using new signal board to the set, setting the Model ID data according to Panel option data.

1) Enter the service mode.

2) Select menu of ID by pressing P▲ or P▼ during display of adjustment menu in the service mode.

3) Change ID data into MODEL ID to initialize by pressing ◿ + or ◿ -, refer to table below.

4) Press and hold the CALL button on the remote control, then press the CHANNEL ▲ button on the TV.

5) Initialization progress dialog including model name and panel vendor is shown. Progress status is "WRITING".

6) Progress status is changed "OK" and power cycle (automatically). Then QA02 initialization has been completed.

7) Enter the service mode and select version check mode. Confirm if model name and model id set is correct. If not, repeat steps 1) to 6).
   Note:
   In case initialization by setting wrong MODEL ID is done, there is a possibility of abnormal display.

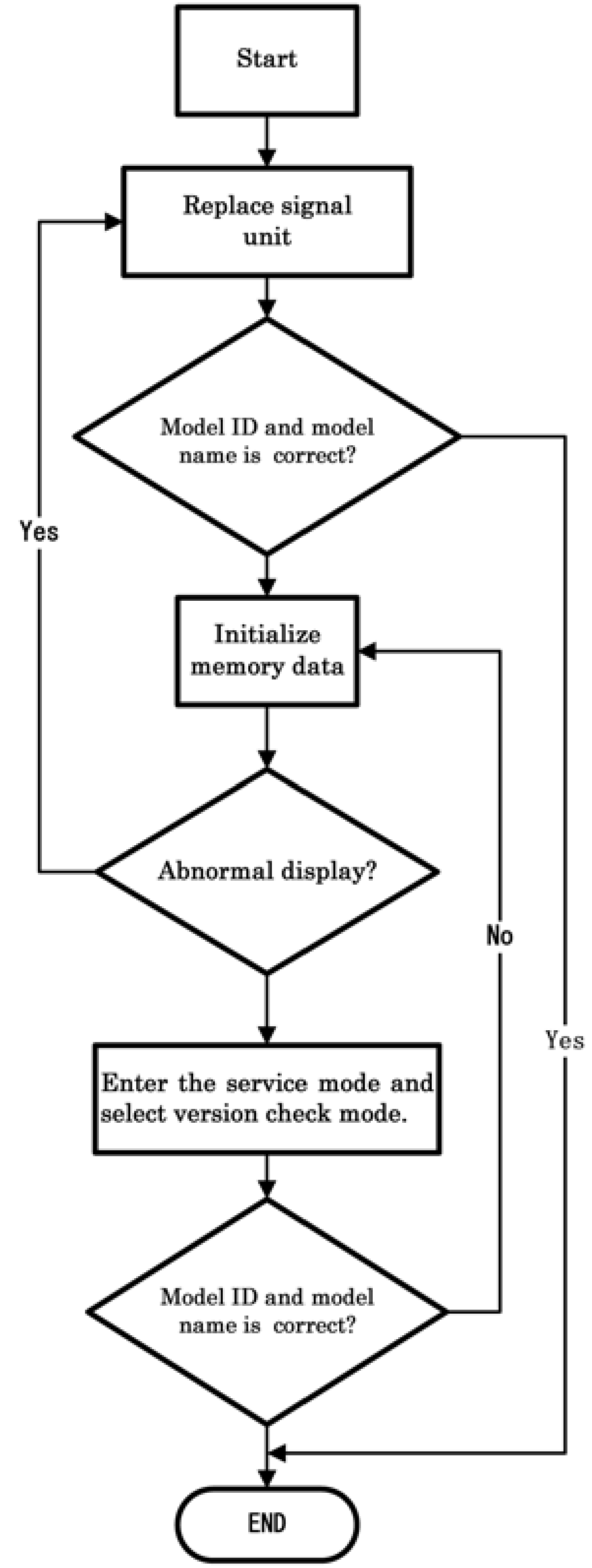
8) Set I2C check function of TVOP to enable.

9) Check the picture carefully. If necessary, adjust any adjustment item above.
Perform "Auto tune" on the owner's manual.

MODEL ID (HEX)	**Model name**	**Panel vendor**
0x01	32AV505D	IPS
0x02	37AV505D	IPS
0x03	42AV505D	LPL
0x04	42AV505D	AUO
0x05		
0x06		
0x07		
0x08		
0x09		
0x10		
0x11		
0x12		
0x13		
0x14		
0x15		
0x16		
0x17		
0x18		
0x19		
0x20		
0x21		
0x22		
0x23		
0x24		
0x25		
0x26		
0x27		
0x28		
0x29		
0x30		

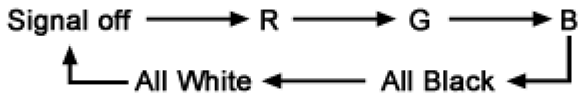
0x31		
0x32		
0x33		

Initializing Data setting flowchart after replacing the Signal Unit


Start
Replace signal unit
Model ID and model name is correct?
Yes
Initialize memory data
Abnormal display?
No
Yes
Enter the service mode and select version check mode.
Model ID and model name is correct?
END

Test Signal Selection

Every pressing of ⇥ button on the remote control changes the built-in test patterns on screen as described below in Service Mode.



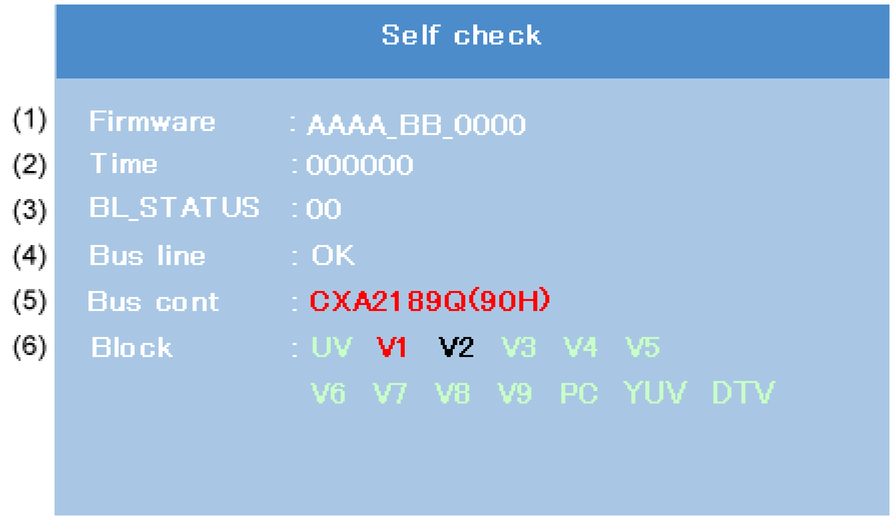
Picture	Signal
▭	Red raster
▭	Green raster
▭	Blue raster
▭	All Black
▭	All White

Self Diagnostic Function

1. Press "9" button on remote control during display of adjustment menu in the service mode. The diagnosis will begin to check if interface among IC's is executed properly.

2. During diagnosis, the following displays are shown.

* Self check display and Item are subject to the models.



Self check

(1) Firmware : AAAA_BB_0000
(2) Time : 000000
(3) BL_STATUS : 00
(4) Bus line : OK
(5) Bus cont : CXA2189Q(90H)
(6) Block : UV V1 V2 V3 V4 V5
V6 V7 V8 V9 PC YUV DTV

(1) Firmware :
Version information of microprocessor
Series name (AAAA) and market area (BB) and software program version (0000)

(2) Time : Total hour of turn the TV on. (Unit : H)

(3) BL_STATUS :
Counter for saving BackLight on error.
This value is counted till 99 (Decimal).

(4) Bus line : -- "OK" is normal
SCL-GND (Red indication) : SCL-GND short circuit
SDA-GND (Red indication) : SDA-GND short circuit
SCL-SDA (Red indication) : SCL-SDA short circuit

(5) Bus cont : --- "OK" is normal.
NG is abnormal (Red indication).
When the abnormal status is detected, type name of semiconductor is indicated in red colour.

(6) Block
UV : TV reception mode
V1 - V9 : VIDEO 1-9 input mode
PC : PC mode
YUV : YUV mode
DTV : DTV mode

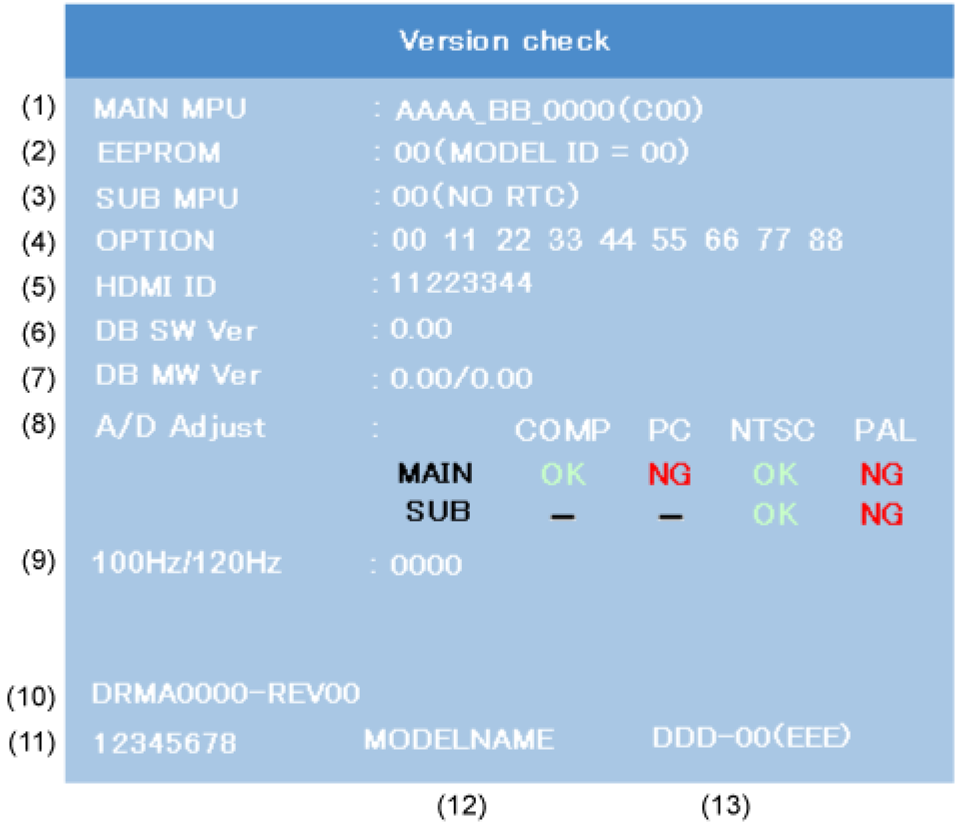
UV	ATV
V1	→1 (SCART (FULL))
	→2

V2	(SCART (S+AV))
V3	➲ 3 (Component)
V4	➲ 4 (Composite)
V5	HDMI1
V6	HDMI2
V7	--
V8	--
V9	--
PC	--
YUV	--
DTV	DTV (Digital Only)

Version Check Mode

1. Press "9" button twice on remote control during display of adjustment menu in the service mode.
   The version of main MPU will be checked.
2. During Version Check, the following displays are shown.

* Version check display and Item are subject to the models.



Version check

(1) MAIN MPU : AAAA_BB_0000(C00)

(2) EEPROM : 00(MODEL ID = 00)

(3) SUB MPU : 00(NO RTC)

(4) OPTION : 00 11 22 33 44 55 66 77 88

(5) HDMI ID : 11223344

(6) DB SW Ver : 0.00

(7) DB MW Ver : 0.00/0.00

(8) A/D Adjust :

	COMP	PC	NTSC	PAL
MAIN	OK	NG	OK	NG
SUB	–	–	OK	NG

(9) 100Hz/120Hz : 0000

(10) DRMA0000-REV00

(11) 12345678 MODELNAME DDD-00(EEE)

(12) (13)

(1) MAIN MPU :

Version information of microprocessor

Series name and Code Program Version (4 figure number) and OSD Version (2 figure number).

(2) EEPROM :

Version information of EEPROM : Display 1 byte data.

(3) SUB MPU :

Version information of SUB MPU : Display 1 byte data.

(4) OPTION :

Option information : Display six numbers of 1 byte data.

(5) HDMI ID :

HDMI ID information : Display 4 byte data.

(6) SW Ver

Version information of DB software as Toshiba release. (Only digital model.)

(7) MW Ver

Left side is Application and UI version information of DB software. (Only digital model.)

Right side is Firmware (Driver) version information of DB software. (Only digital model.)

(8) A/D Adjust

A/D adjustment item.

--MAIN : It's enable only in double Window model. A/D adjustment status of main picture.
--SUB : It's enable only in double Window model. A/D adjustment status of sub picture.
--COMP : Component input
--PC : PC input
--NTSC : NTSC (60 Hz) SD signal (composite input).
--PAL : PAL (50 Hz) SD signal (composite input).
--OK : A/D adjustment set correctly.
--NG : A/D adjustment set incorrect.
-- : A/D adjustment is not needed. Because its picture format isn't used.

(9) 100 Hz FPGA Software Version

It's enable only in 100 Hz drive panel model.

(10) Memory Data Version

Version information of EEPROM.
DRMA**** means model number of EEPROM.
REV** means version of EEPROM.

(11) CD number

CD information (ascii code). : Display 4 byte data.

(12) Model Name

Model name information (ascii code). : Display 7 byte data.

(13) LCD Panel Vendor information display

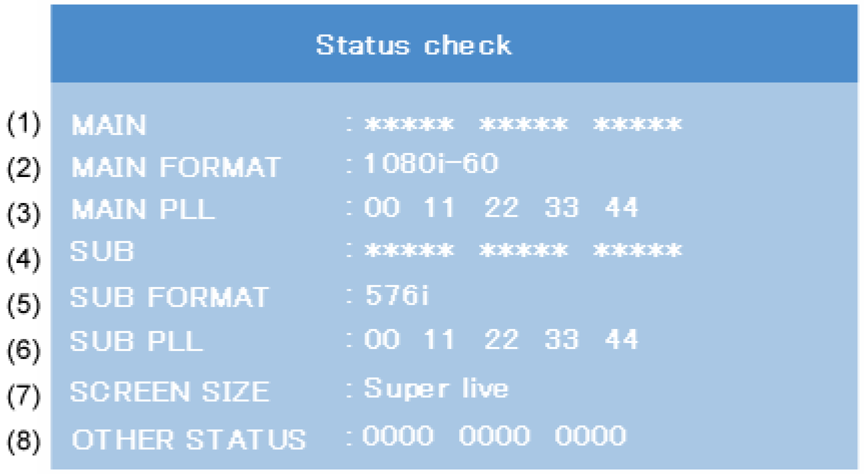
The following Panel Vender (DDD) and screen size (00) and resolution (EEE) are displayed.
Example : AUO-32 (1080p) indicates that Vender is AUO and Screen Size is 32 inch and Full HD panel.

Status Check Mode

1. Press "9" button thrice on remote control during display of adjustment menu in the service mode.
   The status of this model will be checked.

2. During Status Check, the following displays are shown.

* Status check display and Item are subject to the models.



```
Status check
(1) MAIN          : *****  *****  *****
(2) MAIN FORMAT   : 1080i-60
(3) MAIN PLL      : 00  11  22  33  44
(4) SUB           : *****  *****  *****
(5) SUB FORMAT    : 576i
(6) SUB PLL       : 00  11  22  33  44
(7) SCREEN SIZE   : Super live
(8) OTHER STATUS  : 0000  0000  0000
```

(1) MAIN :

Main source information :

Display RF position number (0 - 99) on the main screen, or Input Source (EXT1/2/3/HDMI etc.)

(2) MAIN FORMAT :

Display Video and PC format information

(3) MAIN PLL :

Main PLL information : Display 1 byte data at five.

(4) SUB :

Sub source information :

Display RF position number (0 - 99) on the Sub screen, or Input Source (EXT1/2/3/HDMI etc.)

This item displays only Double window model.

(5) SUB FORMAT :

Display Video and PC format information

This item displays only Double window model.

(6) SUB PLL :

Sub PLL information : Display 1 byte data at five.

This item displays only Double window model.

(7) SCREEN SIZE :

Display the screen size as follows.

Exact Scan

Wide
Super Live 2
Cinema 2
4:3
Super Live 1
Cinema 1
Subtitle
14:9

Note:

Exact Scan is shown only for 1080p panel model with video input mode except pc.

(8) OTHER STATUS :

Other status information : Display three numbers of 2 byte data.

Setting Hotel Mode

Enter to service mode and select Hotel Mode menu by pressing P▲ or P▼.
After selecting Hotel Mode, press ⊿+ to enter details setting in Hotel Mode.

To select menu, press P▲ or P▼ and press OK to enter the adjustment menu of table bellow.
To move the cursor in the adjustment, press ⊿+ or ⊿-.

1. By pressing P▲ or P▼, OPT2 setting will change the value either 1 or 0 on selected items as follows;

OP2

OPT2	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	- (no use)	-	-
D6 (bit6)	Enable mode that TV On will be appeared in forced when turning the main power ON	Enable	Disable
D5 (bit5)	FRONT Key	Disable	Enable
D4 (bit4)	All keys except input selector key (Video/TV)	Disable	Enable
D3 (bit3)	User remote control operation	Disable	Enable

		(Service mode and Supere User mode may possible to setting only)	
D2 (bit2)	Disable SET UP MENU except language. (tuning SETUP MENU)	Disable (Display the language only)	Enable
D1 (bit1)	Disable SETUP MENU	Disable	Enable
D0 (bit0)	HOTEL Mode	On (Enable the setting of D1 from to D7)	Off (Normal)

VOLUX

Set VOLUX as following.

1) Set speaker volume to 100. (Any value is OK, but 100 is better to check sound level.)
2) Down value of VOLUX until finding suitable sound volume level.

VOLUX	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7) ~ D0 (bit0)	Max Limiter of Volume Control	0x00 ~ 0x7F (Normal: 0x7C)	

OP6

OPT6	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	Enable mode that POS or VIDEO program number will be appeared in forced when turn ON the main power	Enable	Disable
D6 (bit6) ~ D0 (bit0)	POS or VIDEO program number	0 ~ 127 [decimal] (Normal: 0) POS number: 0 ~ 99 VIDEO number: 100 ~ 127 (DTV = 100, VIDEO = 101, VIDEO = 102..) 100 is used as ATV when DTV option is disable.	

OP7

OPT7	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	Enable mode that speaker volume will be set in forced when turn ON the main power	Enable	Disable
D6 (bit6) ~ D0 (bit0)	Forced speaker volume	0 ~ 100 [decimal] (Normal: 0) Value above 100 is no effect.	

OP8

OPT8	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7) ~ D3 (bit3)	- (no use)	-	-
D2 (bit2)	Enable mode that picture mode will be set in forced when turn ON the main power	Enable (Display the language only)	Disable
D1 (bit1) ~ D0 (bit0)	Forced picture mode	0 [dec]: Dynamic (mode-1) (Normal) 1 [dec]: Standard (mode-2) 2 [dec]: Mild (mode-3) 3 [dec]: Memory (mode-M)	

LED Indication

The Green and Red LEDs on the TV (at the bottom center of the TV) indicate the TV's status, as described below.

- Red ON (solid) and Green OFF = The TV power cord is plugged in.

TECHNICAL BULLETIN

File Name Title issuing date

PANEL IDENTIFICATION

Panel Identification

If the several panels are alternatively used in the same model without amending the model name, the identification marking will be shown at the last digit of the set serial number on the specification label on the back cover.

In servicing, do not alter the panel because several setting and parts are different.

Marking	Panel Vendor	Marking	Panel Vendor	Marking	Panel Vendor
A	**AUO**	**J**		**S**	**SHARP**
B		**K**	**SAMSUNG**	**T**	
C	**CMO**	**L**	**LPL**	**U**	
D		**M**		**V**	
E		**N**		**W**	
F		**P**		**X**	
G		**Q**		**Y**	
H	**IPS**	**R**		**Z**	

With this alternative use, some of key parts may differ and their combinations are indicated with the suffix marking on the location number in the part list (Miscellaneous).

e.g.

Location No.	Part No.	Description
B001A	75007869	LCD Panel, 32" LPL
B001B	75007870	LCD Panel, 32" AUO
MZ01A	75006036	LDVS Cable
MZ01B	75007893	LDVS Cable

PARTS LIST

Block : ↓Select

Location : Search

Parts No. : Search

Page : 1 / 1 Jump

⏮ ◀ ▶ ⏭

PARTS LIST

Block : All Block

Loading ...

Block		Location	Parts No.	Description
U01A POWER (PE0490)	∗	U01A	75010693	PWU, POWER, PE0490A1
U01A POWER (PE0490)	⚠	C801	76503510	CAPACITOR, PLASTIC FILM, LE224-C
U01A POWER (PE0490)	⚠	C802	76503510	CAPACITOR, PLASTIC FILM, LE224-C
U01A POWER (PE0490)	⚠	C811	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K
U01A POWER (PE0490)	⚠	C812	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K
U01A POWER (PE0490)	⚠	C813	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K
U01A POWER (PE0490)	⚠	C814	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K
U01A POWER (PE0490)		CE04	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF
U01A POWER (PE0490)		CE07	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
U01A POWER (PE0490)		CE08	75005708	CAPACITOR, CHIP CERA, 50V B 0.33UF K, C2012JB1H334KT
U01A POWER (PE0490)		CE09	76669479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
U01A POWER (PE0490)		CE10	76125040	CAPACITOR, ELECTROLYTIC, 450V 120UF M
U01A POWER (PE0490)		CE100	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z
U01A POWER (PE0490)		CE102	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
U01A POWER (PE0490)	⚠	CE11	76092567	CAPACITOR, CERAMIC DISC, AC250V E 1000PF M
U01A POWER (PE0490)		CE16	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
U01A POWER (PE0490)		CE160	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
U01A POWER (PE0490)		CE161	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
U01A POWER (PE0490)		CE17	76092341	CAPACITOR, CERAMIC DISC, 2KV R 470PF K
U01A POWER (PE0490)		CE18	76092337	CAPACITOR, CERAMIC DISC, 2KV 220PF K
U01A POWER (PE0490)	⚠	CE19	76503253	CAPACITOR, PLASTIC FILM, 1250VH 0.01UF H
U01A POWER (PE0490)		CE200	75010686	CAPACITOR ERECTROLYTIC 04P 25V 331M 8X11.5 105DO 8000H, 25ZL
U01A POWER (PE0490)		CE201	75010688	CAPACITOR ELECTROLYTIC 16V 331M 8X11.5L 105DO 3000H, UPW1C33
U01A POWER (PE0490)		CE203	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
U01A POWER (PE0490)		CE23	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
U01A POWER (PE0490)		CE24	76109681	CAPACITOR, CERAMIC CHIP, 50V B 680PF K
U01A POWER (PE0490)		CE40	76073035	CAPACITOR, ELECTROLYTIC, 16V 22UF M
U01A POWER (PE0490)		CE41	76073087	CAPACITOR, ELECTROLYTIC, 50V 22UF M
U01A POWER (PE0490)		CE501	75010687	CAPACITOR ERECTROLYTIC 04P 25V 471M 10X12.5 105DO 10000H, 25
U01A POWER (PE0490)		CE502	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
U01A POWER (PE0490)		CE504	75010690	CAPACITOR ELECTROLYTIC 25V 102M 12.5X20L 105DO 7000H, UPW1E1
U01A POWER (PE0490)		CE571	75010687	CAPACITOR ERECTROLYTIC 04P 25V 471M 10X12.5 105DO 10000H, 25
U01A POWER (PE0490)		CE572	76092178	CAPACITOR, CERAMIC CHIP, 25V B 0.1UF K
U01A POWER (PE0490)		CE573	75010689	CAPACITOR ELECTROLYTIC 16V 821M 10X20L 105DO 5000H, UPW1C821
U01A POWER (PE0490)		CE60	76092795	CAPACITOR, CERAMIC CHIP, 6.3V B 2.2UF K
U01A POWER (PE0490)		CE61	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
U01A POWER (PE0490)		CE63	75004442	CAPACITOR, CERAMIC CHIP, 50V B 1UF K
U01A POWER (PE0490)		CE701	75010687	CAPACITOR ERECTROLYTIC 04P 25V 471M 10X12.5 105DO 10000H, 25
U01A POWER (PE0490)		CE702	76092178	CAPACITOR, CERAMIC CHIP, 25V B 0.1UF K
U01A POWER (PE0490)		CE704	75010689	CAPACITOR ELECTROLYTIC 16V 821M 10X20L 105DO 5000H, UPW1C821
U01A POWER (PE0490)		CE80	76092883	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K
U01A POWER (PE0490)		CE800	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
U01A POWER (PE0490)		CE801	75004442	CAPACITOR, CERAMIC CHIP, 50V B 1UF K
U01A POWER (PE0490)		CE803	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
U01A POWER (PE0490)		CE805	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
U01A POWER (PE0490)		CE806	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
U01A POWER (PE0490)		CE84	76073179	CAPACITOR, ELECTROLYTIC, 25V 4700UF M
U01A POWER (PE0490)		CE901	75005708	CAPACITOR, CHIP CERA, 50V B 0.33UF K, C2012JB1H334KT
U01A POWER (PE0490)		CE902	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K

U01A POWER (PE0490)		CE903	76794101	CAPACITOR, ELECTROLYTIC, 16V 100UF M
U01A POWER (PE0490)	⚠	D899	75010691	VARISTOR V1MA=470V 1TIME= 3500A, ERZV10V471CS
U01A POWER (PE0490)		DE01	23362204	DIODE, D3SB60, 7109F08
U01A POWER (PE0490)		DE06	23357366	DIODE, FR105-B5
U01A POWER (PE0490)		DE07	23357900	DIODE, ZENER, MTZJ33B
U01A POWER (PE0490)		DE11	23357709	DIODE, RU1P
U01A POWER (PE0490)		DE200	75006846	DIODE, D1NS4-5070
U01A POWER (PE0490)		DE201	23357842	DIODE, ZENER, MTZJ6.8B
U01A POWER (PE0490)		DE30	23357697	DIODE, 1SS133
U01A POWER (PE0490)		DE41	23357703	DIODE, 1SS355
U01A POWER (PE0490)		DE50	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE501	23357783	DIODE, ZENER, MA8180-L, TX
U01A POWER (PE0490)		DE502	23357703	DIODE, 1SS355
U01A POWER (PE0490)		DE57	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE60	75006846	DIODE, D1NS4-5070
U01A POWER (PE0490)		DE70	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE75	23357408	DIODE, FMX-12S(023-108)
U01A POWER (PE0490)		DE75B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		DE800	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE801	23357844	DIODE, ZENER, MTZJ7.5A
U01A POWER (PE0490)		DE901	23357865	DIODE, ZENER, MTZJ12B
U01A POWER (PE0490)	⚠	F801	75005842	FUSE, CARTRIDGE 5.2X20, FSL 250V 6.3A (EM)
U01A POWER (PE0490)		F801A	23165433	FUSE HOLDER, 5.2
U01A POWER (PE0490)		F801B	23165433	FUSE HOLDER, 5.2
U01A POWER (PE0490)	⚠	FE01	75005841	FUSE, RADIAL, 5RT 3.15A
U01A POWER (PE0490)	⚠	L801	75010393	TRANSFORMER, CHOKE, TPW-31MH
U01A POWER (PE0490)		L811	23248417	COIL, CHOKE, TLN3481AH
U01A POWER (PE0490)		L812	23248417	COIL, CHOKE, TLN3481AH
U01A POWER (PE0490)		LE11	23103304	FERRITE CHOKE, TEM2011AA
U01A POWER (PE0490)		LE12	23103330	FERRITE CHOKE, 3.5X5X2, TEM2014AH
U01A POWER (PE0490)		LE201	23248399	COIL, CHOKE, TLN3283D
U01A POWER (PE0490)		LE202	23103304	FERRITE CHOKE, TEM2011AA
U01A POWER (PE0490)		LE50	75007519	COIL, CHOKE, 47MMH M 3.3A, RCP1317NP-470M
U01A POWER (PE0490)		LE57	75007519	COIL, CHOKE, 47MMH M 3.3A, RCP1317NP-470M
U01A POWER (PE0490)		LE61	23289052	COIL, PEAKING, TRF4680AU
U01A POWER (PE0490)		LE70	75007519	COIL, CHOKE, 47MMH M 3.3A, RCP1317NP-470M
U01A POWER (PE0490)		LE800	23248417	COIL, CHOKE, TLN3481AH
U01A POWER (PE0490)		LE801	75005857	COIL, CHOKE, 100MMH M 2.3A, RCP1317NP-101M
U01A POWER (PE0490)	⚠	P801A	23713702	PLUG, 2P 11.88MM W VT
U01A POWER (PE0490)	⚠	P802A	23713702	PLUG, 2P 11.88MM W VT
U01A POWER (PE0490)		P950A	75008267	CONNECTOR, W-B 2.0MM 14P VERTICAL, B14B-PH-K-S(LF)(SN)
U01A POWER (PE0490)		P951A	23713945	CONNECTOR, B13B-PH-K-S(LF)
U01A POWER (PE0490)		PG03	23165495	EARTH TERMINAL, MET31-0332
U01A POWER (PE0490)		QE01	75008362	IC, STR-Y6476
U01A POWER (PE0490)		QE01B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE02	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE03	23205276	TRANSISTOR, 2SA1586Y(TE85L, F)
U01A POWER (PE0490)		QE100	23205276	TRANSISTOR, 2SA1586Y(TE85L, F)
U01A POWER (PE0490)		QE101	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE102	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE160	23085415	IC, BD4746G

U01A POWER (PE0490)		QE20	75003051	IC, SI-8050W-TL
U01A POWER (PE0490)	⚠	QE26	75010692	PHOTO COUPLER, TLP421F(GR, J)
U01A POWER (PE0490)		QE30	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE31	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE41	75010239	TRANSISTOR, 2SJ668(TE16L1, NQ)
U01A POWER (PE0490)		QE42	23205506	TRANSISTOR, 2SC4081 Q
U01A POWER (PE0490)		QE50	75006069	IC, SI-8001FFE
U01A POWER (PE0490)		QE501	23205339	TRANSISTOR, 2SC2655-Y(F)
U01A POWER (PE0490)		QE502	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE503	23205327	TRANSISTOR, RN1406(F)
U01A POWER (PE0490)		QE50B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE57	75006069	IC, SI-8001FFE
U01A POWER (PE0490)		QE571	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE572	23205327	TRANSISTOR, RN1406(F)
U01A POWER (PE0490)		QE57B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE60	75004806	IC, PQ6CU12X2APQ
U01A POWER (PE0490)		QE70	75006069	IC, SI-8001FFE
U01A POWER (PE0490)		QE701	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE70B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE72	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE80	75005723	IC, MP1591DS-LF-Z
U01A POWER (PE0490)		QE81	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE83	23085587	IC, TA76431S
U01A POWER (PE0490)		QE90	75004076	IC, PQ090RDA1SZH
U01A POWER (PE0490)		QE92	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE93	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)	⚠	R801	76017004	RESISTOR, METAL GLAZE 1/2W 510K J
U01A POWER (PE0490)	⚠	R899	76005014	RESISTOR, METAL FILM, 1W 8.2M OHM J
U01A POWER (PE0490)		RE01	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE02	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE06	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)		RE07	76011224	RESISTOR, CHIP, 1/20W 220K OHM J
U01A POWER (PE0490)		RE08	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE09	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE10	76554683	RESISTOR, OXIDE METAL FILM, 2W 68K OHM J
U01A POWER (PE0490)		RE100	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE101	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE104	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)		RE105	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE106	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE107	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)		RE110	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)		RE111	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)		RE12	76552101	RESISTOR, OXIDE METAL FILM, 1/2W 100 OHM J
U01A POWER (PE0490)		RE13	76366104	RESISTOR, CARBON FILM, 1/6W 100K OHM J
U01A POWER (PE0490)		RE16	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE160	75006063	RESISTOR, CR1/16 183DV
U01A POWER (PE0490)		RE161	76000445	CHIP JUMPER, 1608TYPE
U01A POWER (PE0490)		RE162	75006059	RESISTOR, CR1/16 682DV
U01A POWER (PE0490)		RE163	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)		RE164	76011561	RESISTOR, CHIP, 1/20W 560 OHM J

U01A POWER (PE0490)		RE165	76011273	RESISTOR, CHIP, 1/20W 27K OHM J
U01A POWER (PE0490)		RE18	75005839	RESISTOR, RGC2-0.47-OHM-J
U01A POWER (PE0490)		RE19	76552150	RESISTOR, OXIDE METAL FILM, 1/2W 15 OHM J
U01A POWER (PE0490)		RE200	76000445	CHIP JUMPER, 1608TYPE
U01A POWER (PE0490)		RE29	76321129	RESISTOR, OXIDE METAL FILM, 1/2W 1.2 OHM J
U01A POWER (PE0490)		RE30	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)		RE31	76011332	RESISTOR, CHIP, 1/20W 3.3K OHM J
U01A POWER (PE0490)		RE32	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)		RE41	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE42	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)		RE43	76011153	RESISTOR, CHIP, 1/2OW 15K OHM J
U01A POWER (PE0490)		RE44	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE45	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)		RE501	76011220	RESISTOR, CHIP, 1/20W 22 OHM J
U01A POWER (PE0490)		RE502	75006056	RESISTOR, CR1/16 821DV
U01A POWER (PE0490)		RE503	75006061	RESISTOR, CR1/16 123DV
U01A POWER (PE0490)		RE506	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)		RE507	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE508	76553680	RESISTOR, OXIDE METAL FILM, 1W 68 OHM J
U01A POWER (PE0490)		RE509	76366472	RESISTOR, CARBON FILM, 1/6W 4.7K OHM J
U01A POWER (PE0490)		RE511	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)		RE512	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE571	75006056	RESISTOR, CR1/16 821DV
U01A POWER (PE0490)		RE572	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U01A POWER (PE0490)		RE573	75006570	RESISTOR, CR1/16 472DV
U01A POWER (PE0490)		RE575	76366473	RESISTOR, CARBON FILM, 1/6W 47K OHM J
U01A POWER (PE0490)		RE576	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)		RE577	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE60	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)		RE61	76011124	RESISTOR, CHIP, 1/20W 120K OHM J
U01A POWER (PE0490)		RE62	76011274	RESISTOR, CHIP, 1/20W 270K OHM J
U01A POWER (PE0490)		RE63	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
U01A POWER (PE0490)		RE64	76019388	RESISTOR, CHIP, 1/16W 10K OHM F
U01A POWER (PE0490)		RE701	75010685	RESISTOR, CR1/16 751DV
U01A POWER (PE0490)		RE702	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U01A POWER (PE0490)		RE703	75005132	RESISTOR, CR1/16 272DV
U01A POWER (PE0490)		RE705	76366473	RESISTOR, CARBON FILM, 1/6W 47K OHM J
U01A POWER (PE0490)		RE706	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)		RE707	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE710	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE711	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE712	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE800	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
U01A POWER (PE0490)		RE801	76000445	CHIP JUMPER, 1608TYPE
U01A POWER (PE0490)		RE802	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)		RE803	76011392	RESISTOR, CHIP, 1/20W 3.9K OHM J
U01A POWER (PE0490)		RE804	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE805	76011220	RESISTOR, CHIP, 1/20W 22 OHM J
U01A POWER (PE0490)		RE81	76871472	RESISTOR, CHIP, 1/8W 4.7K OHM J
U01A POWER (PE0490)		RE810	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE82	76011152	RESISTOR, CHIP, 1/20W 1.5K OHM J

U01A POWER (PE0490)		RE83	76000593	RESISTOR, CHIP, 1/16W 10K OHM F
U01A POWER (PE0490)		RE84	76000448	RESISTOR, CHIP, 1/16W 1.8K OHM F
U01A POWER (PE0490)		RE85	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE86	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)		RE91	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE92	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE93	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE94	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE95	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)	⚠	SR81	23146597	RELAY, DC5V 0.25W, DG5D1-O(M)-2
U01A POWER (PE0490)	⚠	T801	23211905	COIL, LINE FILTER, TRF3228AH
U01A POWER (PE0490)	⚠	T802	23211905	COIL, LINE FILTER, TRF3228AH
U01A POWER (PE0490)	⚠	TE62	75008361	TRANSFORMER, SRW2630EG-204V017
U01A POWER (PE0490)		ZE41	75008909	RESISTOR, 1/4W 0.084M OHM M, TPR2000F
U02A KEY/LED/RMT (PE0491)	*	U02A	75010694	PWU, KEY/LED/RMT, PE0491A1
U02A KEY/LED/RMT (PE0491)		CB02	75005969	CAPACITOR ELECTROLYTIC 10V 221M, ESRE100ETC2
U02A KEY/LED/RMT (PE0491)		CB03	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U02A KEY/LED/RMT (PE0491)		CB04	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U02A KEY/LED/RMT (PE0491)		CB05	75005969	CAPACITOR ELECTROLYTIC 10V 221M, ESRE100ETC2
U02A KEY/LED/RMT (PE0491)		DB01	23358602	DIODE, LED RED-GRN, SPR-54MVWFLMN
U02A KEY/LED/RMT (PE0491)		DB04	23358602	DIODE, LED RED-GRN, SPR-54MVWFLMN
U02A KEY/LED/RMT (PE0491)		DB22	23362251	DIODE, SDS511(SOD-323)
U02A KEY/LED/RMT (PE0491)		DB23	23362251	DIODE, SDS511(SOD-323)
U02A KEY/LED/RMT (PE0491)		GB01	23362042	DIODE, ZENER, UDZS6.8B
U02A KEY/LED/RMT (PE0491)		KB01	75002236	IC, GP1UE261RKVF
U02A KEY/LED/RMT (PE0491)		QB01	23205443	TRANSISTOR, 2SA1162-Y(F)
U02A KEY/LED/RMT (PE0491)		QB02	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U02A KEY/LED/RMT (PE0491)		QB03	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U02A KEY/LED/RMT (PE0491)		RA71	76011683	RESISTOR, CHIP, 1/20W 68K OHM J
U02A KEY/LED/RMT (PE0491)		RA72	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U02A KEY/LED/RMT (PE0491)		RA73	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U02A KEY/LED/RMT (PE0491)		RA74	76000445	CHIP JUMPER, 1608TYPE
U02A KEY/LED/RMT (PE0491)		RA77	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U02A KEY/LED/RMT (PE0491)		RA78	76000445	CHIP JUMPER, 1608TYPE
U02A KEY/LED/RMT (PE0491)		RA79	76000445	CHIP JUMPER, 1608TYPE
U02A KEY/LED/RMT (PE0491)		RB08	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U02A KEY/LED/RMT (PE0491)		RB09	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U02A KEY/LED/RMT (PE0491)		RB10	76011181	RESISTOR, CHIP, 1/20W 180 OHM J
U02A KEY/LED/RMT (PE0491)		RB11	76011271	RESISTOR, CHIP, 1/20W 270 OHM J
U02A KEY/LED/RMT (PE0491)		RB12	76011181	RESISTOR, CHIP, 1/20W 180 OHM J
U02A KEY/LED/RMT (PE0491)		RB13	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U02A KEY/LED/RMT (PE0491)		RB14	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U02A KEY/LED/RMT (PE0491)		RB18	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U02A KEY/LED/RMT (PE0491)		SA01	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)		SA02	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)		SA03	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)		SA04	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)		SA05	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)		SA06	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)		SA07	23344505	SWITCH, PUSH 1C1P
U03AS MAIN (PE0492)	*	U03AS	75010765	PC BOARD ASSY, PE0492A, MAIN

U03AS MAIN (PE0492)		C1002	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1003	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1005	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1006	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1007	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1008	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C1013	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1014	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C1015	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1016	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C1017	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1019	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1020	75009861	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C1021	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1022	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1023	75009861	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C1024	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1026	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1027	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1029	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1030	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1031	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1032	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1033	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1034	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1036	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1037	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1041	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1042	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1043	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1044	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1045	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1046	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1047	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1048	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1051	75009853	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C1055	75008345	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1056	75005812	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1057	75005812	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1058	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1060	75009870	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1064	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1065	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1066	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1067	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1068	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1069	75009861	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C1070	75009861	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C1072	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1073	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1074	75009867	CHIP CERAMIC CAPACITOR (1005)

U03AS MAIN (PE0492)		C1075	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1076	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1077	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1078	75008536	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1079	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1080	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1081	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1082	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1083	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1084	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1086	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1087	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1088	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1089	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C1090	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1091	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1092	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1093	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1094	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1095	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1101	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1102	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1103	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1104	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1105	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1106	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C1107	75008344	NEOCAPACITOR (PSL)
U03AS MAIN (PE0492)		C1108	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1109	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1110	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1120	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1121	75009864	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2000	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2001	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2002	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2003	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2004	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2005	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2006	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2007	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2008	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2009	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2010	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2011	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2012	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2013	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2014	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2015	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2016	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2017	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2018	75009867	CHIP CERAMIC CAPACITOR (1005)

U03AS MAIN (PE0492)		C2019	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2020	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2021	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2022	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2023	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2024	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2025	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2026	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2027	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2107	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2108	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2109	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2205	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2206	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2207	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2208	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2700	75009864	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2701	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2702	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2704	75006011	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2705	75007607	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2711	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2712	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2715	75007607	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2805	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2806	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2807	75002272	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2808	75007604	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2809	75007605	CHIP CERAMIC CAPACITOR (1005)

PARTS LIST

Block : U01A POWER (PE0490)

Block		Location	Parts No.	Description
U01A POWER (PE0490)	*	U01A	75010693	PWU, POWER, PE0490A1
U01A POWER (PE0490)	⚠	C801	76503510	CAPACITOR, PLASTIC FILM, LE224-C
U01A POWER (PE0490)	⚠	C802	76503510	CAPACITOR, PLASTIC FILM, LE224-C
U01A POWER (PE0490)	⚠	C811	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K
U01A POWER (PE0490)	⚠	C812	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K
U01A POWER (PE0490)	⚠	C813	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K
U01A POWER (PE0490)	⚠	C814	76092563	CAPACITOR, CERAMIC DISC, AC250V B 220PF K
U01A POWER (PE0490)		CE04	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF
U01A POWER (PE0490)		CE07	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
U01A POWER (PE0490)		CE08	75005708	CAPACITOR, CHIP CERA, 50V B 0.33UF K, C2012JB1H334KT
U01A POWER (PE0490)		CE09	76669479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
U01A POWER (PE0490)		CE10	76125040	CAPACITOR, ELECTROLYTIC, 450V 120UF M
U01A POWER (PE0490)		CE100	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z
U01A POWER (PE0490)		CE102	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
U01A POWER (PE0490)	⚠	CE11	76092567	CAPACITOR, CERAMIC DISC, AC250V E 1000PF M
U01A POWER (PE0490)		CE16	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
U01A POWER (PE0490)		CE160	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
U01A POWER (PE0490)		CE161	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
U01A POWER (PE0490)		CE17	76092341	CAPACITOR, CERAMIC DISC, 2KV R 470PF K
U01A POWER (PE0490)		CE18	76092337	CAPACITOR, CERAMIC DISC, 2KV 220PF K
U01A POWER (PE0490)	⚠	CE19	76503253	CAPACITOR, PLASTIC FILM, 1250VH 0.01UF H
U01A POWER (PE0490)		CE200	75010686	CAPACITOR ERECTROLYTIC 04P 25V 331M 8X11.5 105DO 8000H, 25ZL
U01A POWER (PE0490)		CE201	75010688	CAPACITOR ELECTROLYTIC 16V 331M 8X11.5L 105DO 3000H, UPW1C33
U01A POWER (PE0490)		CE203	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
U01A POWER (PE0490)		CE23	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
U01A POWER (PE0490)		CE24	76109681	CAPACITOR, CERAMIC CHIP, 50V B 680PF K
U01A POWER (PE0490)		CE40	76073035	CAPACITOR, ELECTROLYTIC, 16V 22UF M
U01A POWER (PE0490)		CE41	76073087	CAPACITOR, ELECTROLYTIC, 50V 22UF M
U01A POWER (PE0490)		CE501	75010687	CAPACITOR ERECTROLYTIC 04P 25V 471M 10X12.5 105DO 10000H, 25
U01A POWER (PE0490)		CE502	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
U01A POWER (PE0490)		CE504	75010690	CAPACITOR ELECTROLYTIC 25V 102M 12.5X20L 105DO 7000H, UPW1E1
U01A POWER (PE0490)		CE571	75010687	CAPACITOR ERECTROLYTIC 04P 25V 471M 10X12.5 105DO 10000H, 25
U01A POWER (PE0490)		CE572	76092178	CAPACITOR, CERAMIC CHIP, 25V B 0.1UF K
U01A POWER (PE0490)		CE573	75010689	CAPACITOR ELECTROLYTIC 16V 821M 10X20L 105DO 5000H, UPW1C821
U01A POWER (PE0490)		CE60	76092795	CAPACITOR, CERAMIC CHIP, 6.3V B 2.2UF K
U01A POWER (PE0490)		CE61	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
U01A POWER (PE0490)		CE63	75004442	CAPACITOR, CERAMIC CHIP, 50V B 1UF K
U01A POWER (PE0490)		CE701	75010687	CAPACITOR ERECTROLYTIC 04P 25V 471M 10X12.5 105DO 10000H, 25
U01A POWER (PE0490)		CE702	76092178	CAPACITOR, CERAMIC CHIP, 25V B 0.1UF K
U01A POWER (PE0490)		CE704	75010689	CAPACITOR ELECTROLYTIC 16V 821M 10X20L 105DO 5000H, UPW1C821
U01A POWER (PE0490)		CE80	76092883	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K
U01A POWER (PE0490)		CE800	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
U01A POWER (PE0490)		CE801	75004442	CAPACITOR, CERAMIC CHIP, 50V B 1UF K
U01A POWER (PE0490)		CE803	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
U01A POWER (PE0490)		CE805	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
U01A POWER (PE0490)		CE806	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
U01A POWER (PE0490)		CE84	76073179	CAPACITOR, ELECTROLYTIC, 25V 4700UF M
U01A POWER (PE0490)		CE901	75005708	CAPACITOR, CHIP CERA, 50V B 0.33UF K, C2012JB1H334KT
U01A POWER (PE0490)		CE902	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K

U01A POWER (PE0490)		CE903	76794101	CAPACITOR, ELECTROLYTIC, 16V 100UF M
U01A POWER (PE0490)	⚠	D899	75010691	VARISTOR V1MA=470V 1TIME= 3500A, ERZV10V471CS
U01A POWER (PE0490)		DE01	23362204	DIODE, D3SB60, 7109F08
U01A POWER (PE0490)		DE06	23357366	DIODE, FR105-B5
U01A POWER (PE0490)		DE07	23357900	DIODE, ZENER, MTZJ33B
U01A POWER (PE0490)		DE11	23357709	DIODE, RU1P
U01A POWER (PE0490)		DE200	75006846	DIODE, D1NS4-5070
U01A POWER (PE0490)		DE201	23357842	DIODE, ZENER, MTZJ6.8B
U01A POWER (PE0490)		DE30	23357697	DIODE, 1SS133
U01A POWER (PE0490)		DE41	23357703	DIODE, 1SS355
U01A POWER (PE0490)		DE50	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE501	23357783	DIODE, ZENER, MA8180-L, TX
U01A POWER (PE0490)		DE502	23357703	DIODE, 1SS355
U01A POWER (PE0490)		DE57	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE60	75006846	DIODE, D1NS4-5070
U01A POWER (PE0490)		DE70	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE75	23357408	DIODE, FMX-12S(023-108)
U01A POWER (PE0490)		DE75B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		DE800	75009328	DIODE, RB055L-40
U01A POWER (PE0490)		DE801	23357844	DIODE, ZENER, MTZJ7.5A
U01A POWER (PE0490)		DE901	23357865	DIODE, ZENER, MTZJ12B
U01A POWER (PE0490)	⚠	F801	75005842	FUSE, CARTRIDGE 5.2X20, FSL 250V 6.3A (EM)
U01A POWER (PE0490)		F801A	23165433	FUSE HOLDER, 5.2
U01A POWER (PE0490)		F801B	23165433	FUSE HOLDER, 5.2
U01A POWER (PE0490)	⚠	FE01	75005841	FUSE, RADIAL, 5RT 3.15A
U01A POWER (PE0490)	⚠	L801	75010393	TRANSFORMER, CHOKE, TPW-31MH
U01A POWER (PE0490)		L811	23248417	COIL, CHOKE, TLN3481AH
U01A POWER (PE0490)		L812	23248417	COIL, CHOKE, TLN3481AH
U01A POWER (PE0490)		LE11	23103304	FERRITE CHOKE, TEM2011AA
U01A POWER (PE0490)		LE12	23103330	FERRITE CHOKE, 3.5X5X2, TEM2014AH
U01A POWER (PE0490)		LE201	23248399	COIL, CHOKE, TLN3283D
U01A POWER (PE0490)		LE202	23103304	FERRITE CHOKE, TEM2011AA
U01A POWER (PE0490)		LE50	75007519	COIL, CHOKE, 47MMH M 3.3A, RCP1317NP-470M
U01A POWER (PE0490)		LE57	75007519	COIL, CHOKE, 47MMH M 3.3A, RCP1317NP-470M
U01A POWER (PE0490)		LE61	23289052	COIL, PEAKING, TRF4680AU
U01A POWER (PE0490)		LE70	75007519	COIL, CHOKE, 47MMH M 3.3A, RCP1317NP-470M
U01A POWER (PE0490)		LE800	23248417	COIL, CHOKE, TLN3481AH
U01A POWER (PE0490)		LE801	75005857	COIL, CHOKE, 100MMH M 2.3A, RCP1317NP-101M
U01A POWER (PE0490)	⚠	P801A	23713702	PLUG, 2P 11.88MM W VT
U01A POWER (PE0490)	⚠	P802A	23713702	PLUG, 2P 11.88MM W VT
U01A POWER (PE0490)		P950A	75008267	CONNECTOR, W-B 2.0MM 14P VERTICAL, B14B-PH-K-S(LF)(SN)
U01A POWER (PE0490)		P951A	23713945	CONNECTOR, B13B-PH-K-S(LF)
U01A POWER (PE0490)		PG03	23165495	EARTH TERMINAL, MET31-0332
U01A POWER (PE0490)		QE01	75008362	IC, STR-Y6476
U01A POWER (PE0490)		QE01B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE02	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE03	23205276	TRANSISTOR, 2SA1586Y(TE85L, F)
U01A POWER (PE0490)		QE100	23205276	TRANSISTOR, 2SA1586Y(TE85L, F)
U01A POWER (PE0490)		QE101	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE102	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE160	23085415	IC, BD4746G

U01A POWER (PE0490)		QE20	75003051	IC, SI-8050W-TL
U01A POWER (PE0490)	⚠	QE26	75010692	PHOTO COUPLER, TLP421F(GR, J)
U01A POWER (PE0490)		QE30	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE31	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE41	75010239	TRANSISTOR, 2SJ668(TE16L1, NQ)
U01A POWER (PE0490)		QE42	23205506	TRANSISTOR, 2SC4081 Q
U01A POWER (PE0490)		QE50	75006069	IC, SI-8001FFE
U01A POWER (PE0490)		QE501	23205339	TRANSISTOR, 2SC2655-Y(F)
U01A POWER (PE0490)		QE502	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE503	23205327	TRANSISTOR, RN1406(F)
U01A POWER (PE0490)		QE50B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE57	75006069	IC, SI-8001FFE
U01A POWER (PE0490)		QE571	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE572	23205327	TRANSISTOR, RN1406(F)
U01A POWER (PE0490)		QE57B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE60	75004806	IC, PQ6CU12X2APQ
U01A POWER (PE0490)		QE70	75006069	IC, SI-8001FFE
U01A POWER (PE0490)		QE701	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE70B	23717240	SCREW, BITTB3X10SZN
U01A POWER (PE0490)		QE72	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE80	75005723	IC, MP1591DS-LF-Z
U01A POWER (PE0490)		QE81	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE83	23085587	IC, TA76431S
U01A POWER (PE0490)		QE90	75004076	IC, PQ090RDA1SZH
U01A POWER (PE0490)		QE92	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)		QE93	23205277	TRANSISTOR, 2SC4116-Y(TE85L, F)
U01A POWER (PE0490)	⚠	R801	76017004	RESISTOR, METAL GLAZE 1/2W 510K J
U01A POWER (PE0490)	⚠	R899	76005014	RESISTOR, METAL FILM, 1W 8.2M OHM J
U01A POWER (PE0490)		RE01	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE02	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE06	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)		RE07	76011224	RESISTOR, CHIP, 1/20W 220K OHM J
U01A POWER (PE0490)		RE08	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE09	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE10	76554683	RESISTOR, OXIDE METAL FILM, 2W 68K OHM J
U01A POWER (PE0490)		RE100	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE101	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE104	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)		RE105	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE106	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE107	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)		RE110	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)		RE111	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)		RE12	76552101	RESISTOR, OXIDE METAL FILM, 1/2W 100 OHM J
U01A POWER (PE0490)		RE13	76366104	RESISTOR, CARBON FILM, 1/6W 100K OHM J
U01A POWER (PE0490)		RE16	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE160	75006063	RESISTOR, CR1/16 183DV
U01A POWER (PE0490)		RE161	76000445	CHIP JUMPER, 1608TYPE
U01A POWER (PE0490)		RE162	75006059	RESISTOR, CR1/16 682DV
U01A POWER (PE0490)		RE163	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)		RE164	76011561	RESISTOR, CHIP, 1/20W 560 OHM J

U01A POWER (PE0490)		RE165	76011273	RESISTOR, CHIP, 1/20W 27K OHM J
U01A POWER (PE0490)		RE18	75005839	RESISTOR, RGC2-0.47-OHM-J
U01A POWER (PE0490)		RE19	76552150	RESISTOR, OXIDE METAL FILM, 1/2W 15 OHM J
U01A POWER (PE0490)		RE200	76000445	CHIP JUMPER, 1608TYPE
U01A POWER (PE0490)		RE29	76321129	RESISTOR, OXIDE METAL FILM, 1/2W 1.2 OHM J
U01A POWER (PE0490)		RE30	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)		RE31	76011332	RESISTOR, CHIP, 1/20W 3.3K OHM J
U01A POWER (PE0490)		RE32	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
U01A POWER (PE0490)		RE41	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE42	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)		RE43	76011153	RESISTOR, CHIP, 1/2OW 15K OHM J
U01A POWER (PE0490)		RE44	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE45	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)		RE501	76011220	RESISTOR, CHIP, 1/20W 22 OHM J
U01A POWER (PE0490)		RE502	75006056	RESISTOR, CR1/16 821DV
U01A POWER (PE0490)		RE503	75006061	RESISTOR, CR1/16 123DV
U01A POWER (PE0490)		RE506	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)		RE507	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE508	76553680	RESISTOR, OXIDE METAL FILM, 1W 68 OHM J
U01A POWER (PE0490)		RE509	76366472	RESISTOR, CARBON FILM, 1/6W 4.7K OHM J
U01A POWER (PE0490)		RE511	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)		RE512	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE571	75006056	RESISTOR, CR1/16 821DV
U01A POWER (PE0490)		RE572	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U01A POWER (PE0490)		RE573	75006570	RESISTOR, CR1/16 472DV
U01A POWER (PE0490)		RE575	76366473	RESISTOR, CARBON FILM, 1/6W 47K OHM J
U01A POWER (PE0490)		RE576	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)		RE577	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE60	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)		RE61	76011124	RESISTOR, CHIP, 1/20W 120K OHM J
U01A POWER (PE0490)		RE62	76011274	RESISTOR, CHIP, 1/20W 270K OHM J
U01A POWER (PE0490)		RE63	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
U01A POWER (PE0490)		RE64	76019388	RESISTOR, CHIP, 1/16W 10K OHM F
U01A POWER (PE0490)		RE701	75010685	RESISTOR, CR1/16 751DV
U01A POWER (PE0490)		RE702	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U01A POWER (PE0490)		RE703	75005132	RESISTOR, CR1/16 272DV
U01A POWER (PE0490)		RE705	76366473	RESISTOR, CARBON FILM, 1/6W 47K OHM J
U01A POWER (PE0490)		RE706	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
U01A POWER (PE0490)		RE707	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE710	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE711	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE712	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE800	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
U01A POWER (PE0490)		RE801	76000445	CHIP JUMPER, 1608TYPE
U01A POWER (PE0490)		RE802	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U01A POWER (PE0490)		RE803	76011392	RESISTOR, CHIP, 1/20W 3.9K OHM J
U01A POWER (PE0490)		RE804	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
U01A POWER (PE0490)		RE805	76011220	RESISTOR, CHIP, 1/20W 22 OHM J
U01A POWER (PE0490)		RE81	76871472	RESISTOR, CHIP, 1/8W 4.7K OHM J
U01A POWER (PE0490)		RE810	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE82	76011152	RESISTOR, CHIP, 1/20W 1.5K OHM J

U01A POWER (PE0490)		RE83	76000593	RESISTOR, CHIP, 1/16W 10K OHM F
U01A POWER (PE0490)		RE84	76000448	RESISTOR, CHIP, 1/16W 1.8K OHM F
U01A POWER (PE0490)		RE85	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE86	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U01A POWER (PE0490)		RE91	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE92	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE93	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
U01A POWER (PE0490)		RE94	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)		RE95	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U01A POWER (PE0490)	⚠	SR81	23146597	RELAY, DC5V 0.25W, DG5D1-O(M)-2
U01A POWER (PE0490)	⚠	T801	23211905	COIL, LINE FILTER, TRF3228AH
U01A POWER (PE0490)	⚠	T802	23211905	COIL, LINE FILTER, TRF3228AH
U01A POWER (PE0490)	⚠	TE62	75008361	TRANSFORMER, SRW2630EG-204V017
U01A POWER (PE0490)		ZE41	75008909	RESISTOR, 1/4W 0.084M OHM M, TPR2000F

PARTS LIST

Block : U02A KEY/LED/RMT (PE0491)

Block		Location	Parts No.	Description
U02A KEY/LED/RMT (PE0491)	*	U02A	75010694	PWU, KEY/LED/RMT, PE0491A1
U02A KEY/LED/RMT (PE0491)		CB02	75005969	CAPACITOR ELECTROLYTIC 10V 221M, ESRE100ETC2
U02A KEY/LED/RMT (PE0491)		CB03	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U02A KEY/LED/RMT (PE0491)		CB04	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
U02A KEY/LED/RMT (PE0491)		CB05	75005969	CAPACITOR ELECTROLYTIC 10V 221M, ESRE100ETC2
U02A KEY/LED/RMT (PE0491)		DB01	23358602	DIODE, LED RED-GRN, SPR-54MVWFLMN
U02A KEY/LED/RMT (PE0491)		DB04	23358602	DIODE, LED RED-GRN, SPR-54MVWFLMN
U02A KEY/LED/RMT (PE0491)		DB22	23362251	DIODE, SDS511(SOD-323)
U02A KEY/LED/RMT (PE0491)		DB23	23362251	DIODE, SDS511(SOD-323)
U02A KEY/LED/RMT (PE0491)		GB01	23362042	DIODE, ZENER, UDZS6.8B
U02A KEY/LED/RMT (PE0491)		KB01	75002236	IC, GP1UE261RKVF
U02A KEY/LED/RMT (PE0491)		QB01	23205443	TRANSISTOR, 2SA1162-Y(F)
U02A KEY/LED/RMT (PE0491)		QB02	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U02A KEY/LED/RMT (PE0491)		QB03	23205392	TRANSISTOR, 2SC5343UF-Y(BULK)
U02A KEY/LED/RMT (PE0491)		RA71	76011683	RESISTOR, CHIP, 1/20W 68K OHM J
U02A KEY/LED/RMT (PE0491)		RA72	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
U02A KEY/LED/RMT (PE0491)		RA73	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U02A KEY/LED/RMT (PE0491)		RA74	76000445	CHIP JUMPER, 1608TYPE
U02A KEY/LED/RMT (PE0491)		RA77	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
U02A KEY/LED/RMT (PE0491)		RA78	76000445	CHIP JUMPER, 1608TYPE
U02A KEY/LED/RMT (PE0491)		RA79	76000445	CHIP JUMPER, 1608TYPE
U02A KEY/LED/RMT (PE0491)		RB08	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U02A KEY/LED/RMT (PE0491)		RB09	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
U02A KEY/LED/RMT (PE0491)		RB10	76011181	RESISTOR, CHIP, 1/20W 180 OHM J
U02A KEY/LED/RMT (PE0491)		RB11	76011271	RESISTOR, CHIP, 1/20W 270 OHM J
U02A KEY/LED/RMT (PE0491)		RB12	76011181	RESISTOR, CHIP, 1/20W 180 OHM J
U02A KEY/LED/RMT (PE0491)		RB13	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U02A KEY/LED/RMT (PE0491)		RB14	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U02A KEY/LED/RMT (PE0491)		RB18	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
U02A KEY/LED/RMT (PE0491)		SA01	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)		SA02	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)		SA03	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)		SA04	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)		SA05	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)		SA06	23344505	SWITCH, PUSH 1C1P
U02A KEY/LED/RMT (PE0491)		SA07	23344505	SWITCH, PUSH 1C1P

PARTS LIST

Block : U03AS MAIN (PE0492)

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Block		Location	Parts No.	Description AA S M L ⇧ ⇩
U03AS MAIN (PE0492)	∗	U03AS	75010765	PC BOARD ASSY, PE0492A, MAIN
U03AS MAIN (PE0492)		C1002	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1003	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1005	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1006	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1007	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1008	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C1013	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1014	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C1015	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1016	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C1017	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1019	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1020	75009861	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C1021	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1022	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1023	75009861	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C1024	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1026	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1027	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1029	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1030	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1031	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1032	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1033	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1034	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1036	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1037	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1041	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1042	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1043	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1044	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1045	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1046	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1047	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1048	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1051	75009853	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C1055	75008345	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1056	75005812	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1057	75005812	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1058	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1060	75009870	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1064	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1065	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1066	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1067	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1068	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1069	75009861	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C1070	75009861	CHIP CERAMIC CAPACITOR (1608)

U03AS MAIN (PE0492)		C1072	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1073	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1074	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1075	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1076	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1077	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1078	75008536	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1079	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1080	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1081	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1082	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1083	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1084	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1086	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1087	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1088	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1089	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C1090	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1091	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1092	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1093	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1094	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1095	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1101	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1102	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1103	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1104	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1105	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1106	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C1107	75008344	NEOCAPACITOR (PSL)
U03AS MAIN (PE0492)		C1108	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1109	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1110	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1120	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C1121	75009864	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2000	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2001	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2002	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2003	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2004	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2005	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2006	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2007	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2008	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2009	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2010	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2011	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2012	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2013	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2014	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2015	75009867	CHIP CERAMIC CAPACITOR (1005)

U03AS MAIN (PE0492)		C2016	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2017	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2018	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2019	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2020	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2021	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2022	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2023	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2024	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2025	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2026	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2027	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2107	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2108	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2109	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2205	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2206	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2207	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2208	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2700	75009864	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2701	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2702	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2704	75006011	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2705	75007607	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2711	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2712	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2715	75007607	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C2805	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2806	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2807	75002272	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2808	75007604	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2809	75007605	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C2810	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C3001	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C3002	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C3005	75009856	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C3006	75009856	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C3501	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C3502	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C3503	75009861	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C4001	75009858	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C4002	75009858	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C4150	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4151	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4152	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4153	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4154	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4155	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4170	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4171	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4172	75009874	CHIP CERAMIC CAPACITOR (2012)

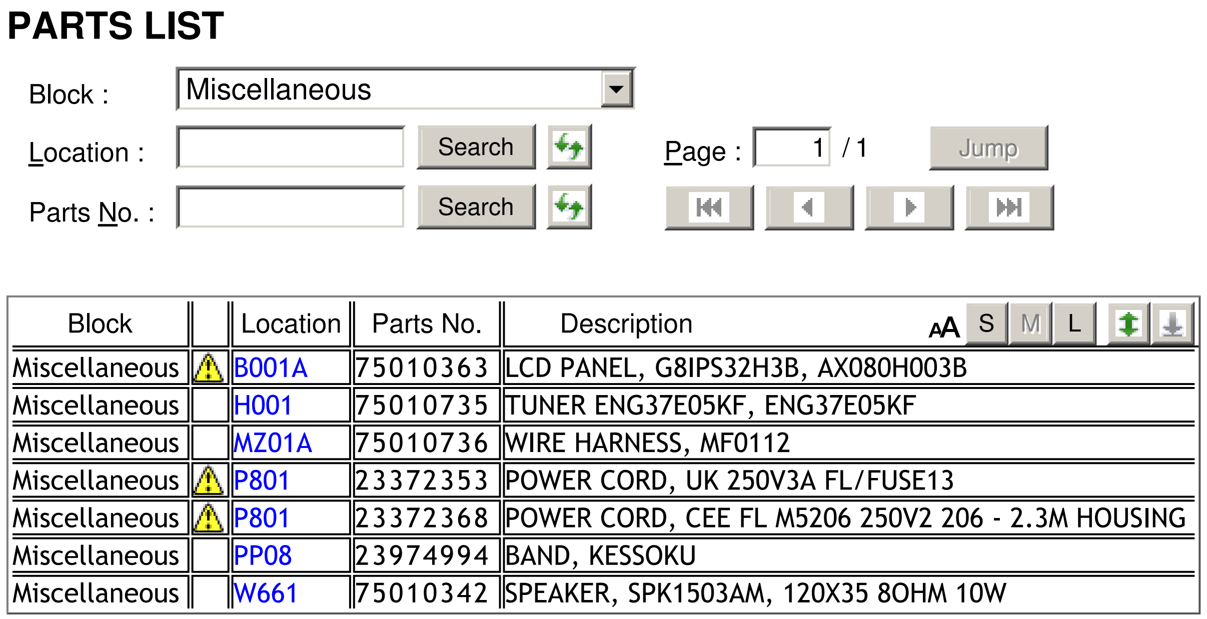
U03AS MAIN (PE0492)		C4173	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4174	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4175	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4176	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4177	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4178	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4201	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4250	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4251	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4252	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4253	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4254	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4255	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4265	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4266	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4267	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4268	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4300	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4301	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4302	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4303	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4304	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4305	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4306	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4307	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4308	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4309	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4310	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4311	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4312	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4313	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4314	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4315	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4316	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4317	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4318	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4319	75009868	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C4320	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4321	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4322	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4323	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4324	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4406	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4501	75009878	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C4502	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4506	75009878	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C4507	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4509	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4511	75009852	CAPACITOR CHIP CERA 25V 104S 3
U03AS MAIN (PE0492)		C4512	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4513	75009867	CHIP CERAMIC CAPACITOR (1005)

U03AS MAIN (PE0492)		C4514	75008340	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4515	75009866	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4516	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4517	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4518	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4519	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4520	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4522	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4523	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4524	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4525	75009866	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4526	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4527	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4528	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4529	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4530	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4531	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4532	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4580	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4581	75010712	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4590	75010144	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C4591	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4600	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4601	75009878	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C4602	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4700	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4702	75006005	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4703	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4704	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4705	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4706	75006005	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4707	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4708	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4710	75009852	CAPACITOR CHIP CERA 25V 104S 3
U03AS MAIN (PE0492)		C4800	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4801	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4802	75006005	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4803	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4804	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4805	75006005	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4806	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4807	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4811	75009240	CHIP THREE TERMINAL CAPACITOR
U03AS MAIN (PE0492)		C4900	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4901	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4902	75009869	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4903	75008344	NEOCAPACITOR (PSL)
U03AS MAIN (PE0492)		C4904	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4905	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4906	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4907	75009867	CHIP CERAMIC CAPACITOR (1005)

U03AS MAIN (PE0492)		C4908	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4912	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4913	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4914	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4915	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4916	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C4918	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4919	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4920	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C4921	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5008	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5009	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C5010	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5011	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C5103	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5104	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5201	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5202	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5203	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5204	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5205	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5400	75009860	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C5401	75009860	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C5402	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5403	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5404	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C5405	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5406	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5407	75009874	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C5500	75009876	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C5501	75009239	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C5502	75009878	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C5504	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C5507	75009878	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C5510	75009881	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C5600	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5601	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5602	75002272	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5603	75009934	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C5605	75002272	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5606	75002272	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C5607	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6001	75006013	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6002	75006009	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6003	75006009	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6004	75006009	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6005	75006009	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6006	75008345	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6007	75008345	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6008	75006009	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6009	75006009	CHIP CERAMIC CAPACITOR (2012)

U03AS MAIN (PE0492)		C6010	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6011	75009853	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6012	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6013	75009875	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6014	75006013	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6015	75006013	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6016	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6017	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6018	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6019	75009875	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6020	75009875	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6021	75009866	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6022	75009875	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6023	75009880	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6024	75006004	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6025	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6026	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6029	75009862	CHIP CERAMIC CAPACITOR (3216)
U03AS MAIN (PE0492)		C6030	75009862	CHIP CERAMIC CAPACITOR (3216)
U03AS MAIN (PE0492)		C6031	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6032	75008536	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6033	75008536	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6034	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6035	75009870	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6036	75007614	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6037	75005813	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6038	75006004	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6039	75007611	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6040	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6041	75007606	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6042	75007606	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6043	V03GD0000580	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6044	V03GD0000580	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6045	V03GD0000580	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6050	75009875	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6060	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6063	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6066	75007609	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6070	75008345	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6071	75008345	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6072	75008536	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6073	75008536	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6074	75007606	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6075	75007606	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6076	75006009	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6077	75006009	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6078	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6079	75009872	CHIP ALUMINUM ELECTROLYTIC CAP
U03AS MAIN (PE0492)		C6080	75008536	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6081	75008536	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6082	75008345	CHIP CERAMIC CAPACITOR (1005)

U03AS MAIN (PE0492)		C6083	75008345	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6101	75005755	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6102	75006010	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6103	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6104	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6105	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6106	75005709	CAPACITOR CHIP CERA 50V B 474K
U03AS MAIN (PE0492)		C6107	75009853	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6108	75009853	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6109	75009853	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6110	75005755	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6111	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6112	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6113	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6114	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6115	75005709	CAPACITOR CHIP CERA 50V B 474K
U03AS MAIN (PE0492)		C6116	75009853	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6117	75009853	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6118	75009853	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6119	75006010	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6120	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6121	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6122	V03GD0001164	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6123	V03GD0001164	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6124	75008346	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6125	75008340	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6126	76073057	CE04P1E102M
U03AS MAIN (PE0492)		C6127	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6128	75009868	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6129	75009867	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6130	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6131	75002273	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6132	75010714	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6133	75009877	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6134	75009878	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6136	75006008	CHIP CERAMIC CAPACITOR (2012)
U03AS MAIN (PE0492)		C6137	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6138	75009927	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6139	75006010	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6140	75006010	CHIP CERAMIC CAPACITOR (1608)
U03AS MAIN (PE0492)		C6171	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6172	75007603	CHIP CERAMIC CAPACITOR (1005)
U03AS MAIN (PE0492)		C6301	76073005	CE04P0J102M
U03AS MAIN (PE0492)		C6303	75007612	CHIP ALUMINUM ELECTROLYTIC CAP



PARTS LIST

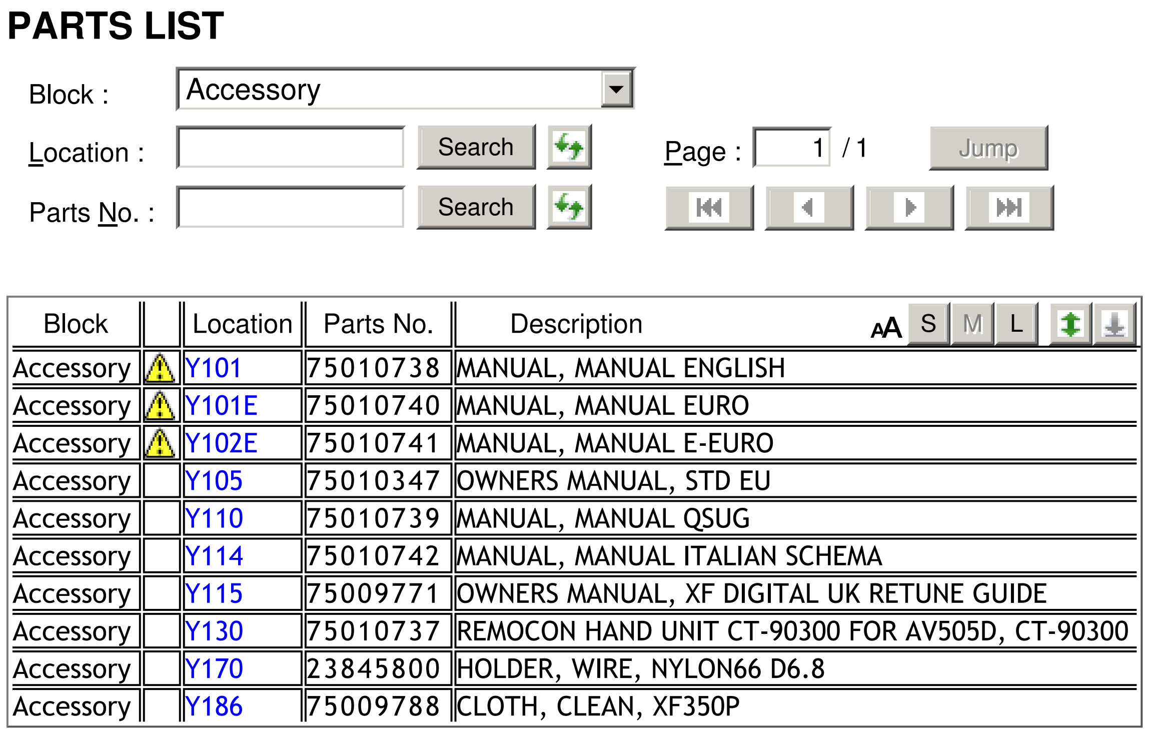
Block : Miscellaneous

Location :

Parts No. :

Page : 1 / 1

Block		Location	Parts No.	Description
Miscellaneous	⚠	B001A	75010363	LCD PANEL, G8IPS32H3B, AX080H003B
Miscellaneous		H001	75010735	TUNER ENG37E05KF, ENG37E05KF
Miscellaneous		MZ01A	75010736	WIRE HARNESS, MF0112
Miscellaneous	⚠	P801	23372353	POWER CORD, UK 250V3A FL/FUSE13
Miscellaneous	⚠	P801	23372368	POWER CORD, CEE FL M5206 250V2 206 - 2.3M HOUSING
Miscellaneous		PP08	23974994	BAND, KESSOKU
Miscellaneous		W661	75010342	SPEAKER, SPK1503AM, 120X35 8OHM 10W



PARTS LIST

Block : Accessory

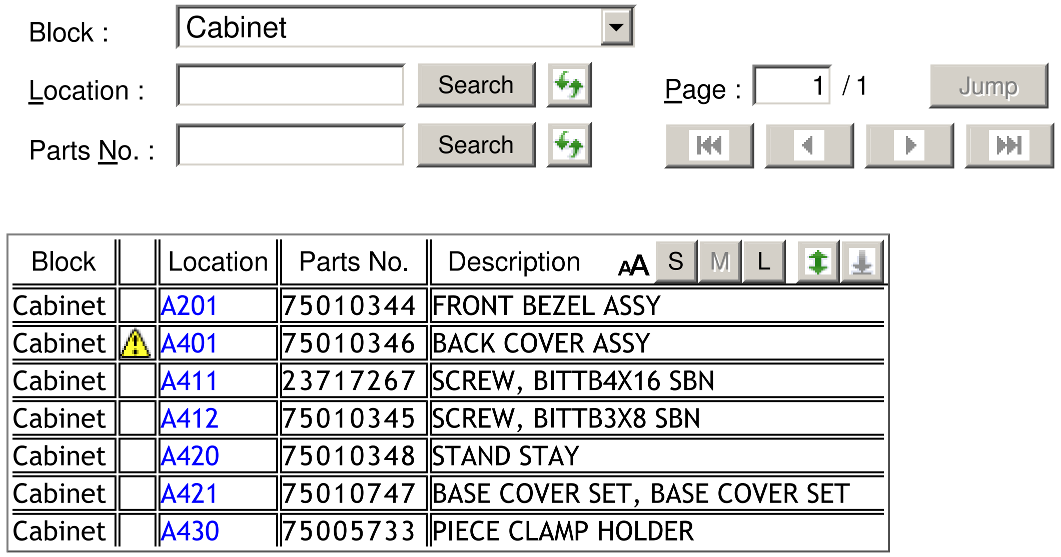
Location :

Parts No. :

Page : 1 / 1

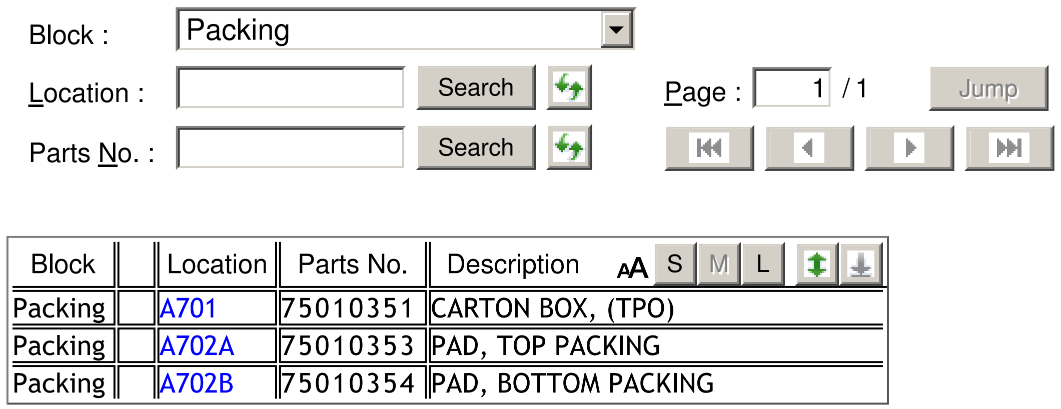
Block		Location	Parts No.	Description
Accessory	⚠	Y101	75010738	MANUAL, MANUAL ENGLISH
Accessory	⚠	Y101E	75010740	MANUAL, MANUAL EURO
Accessory	⚠	Y102E	75010741	MANUAL, MANUAL E-EURO
Accessory		Y105	75010347	OWNERS MANUAL, STD EU
Accessory		Y110	75010739	MANUAL, MANUAL QSUG
Accessory		Y114	75010742	MANUAL, MANUAL ITALIAN SCHEMA
Accessory		Y115	75009771	OWNERS MANUAL, XF DIGITAL UK RETUNE GUIDE
Accessory		Y130	75010737	REMOCON HAND UNIT CT-90300 FOR AV505D, CT-90300
Accessory		Y170	23845800	HOLDER, WIRE, NYLON66 D6.8
Accessory		Y186	75009788	CLOTH, CLEAN, XF350P

PARTS LIST


Block :
Cabinet
Location :
Search
Page :
1
/ 1
Jump
Parts No. :
Search
S
M
L

Block		Location	Parts No.	Description
Cabinet		A201	75010344	FRONT BEZEL ASSY
Cabinet	⚠	A401	75010346	BACK COVER ASSY
Cabinet		A411	23717267	SCREW, BITTB4X16 SBN
Cabinet		A412	75010345	SCREW, BITTB3X8 SBN
Cabinet		A420	75010348	STAND STAY
Cabinet		A421	75010747	BASE COVER SET, BASE COVER SET
Cabinet		A430	75005733	PIECE CLAMP HOLDER

PARTS LIST


Location :
Parts No. :
Search
Search
Jump
S
M
L

Block : Packing

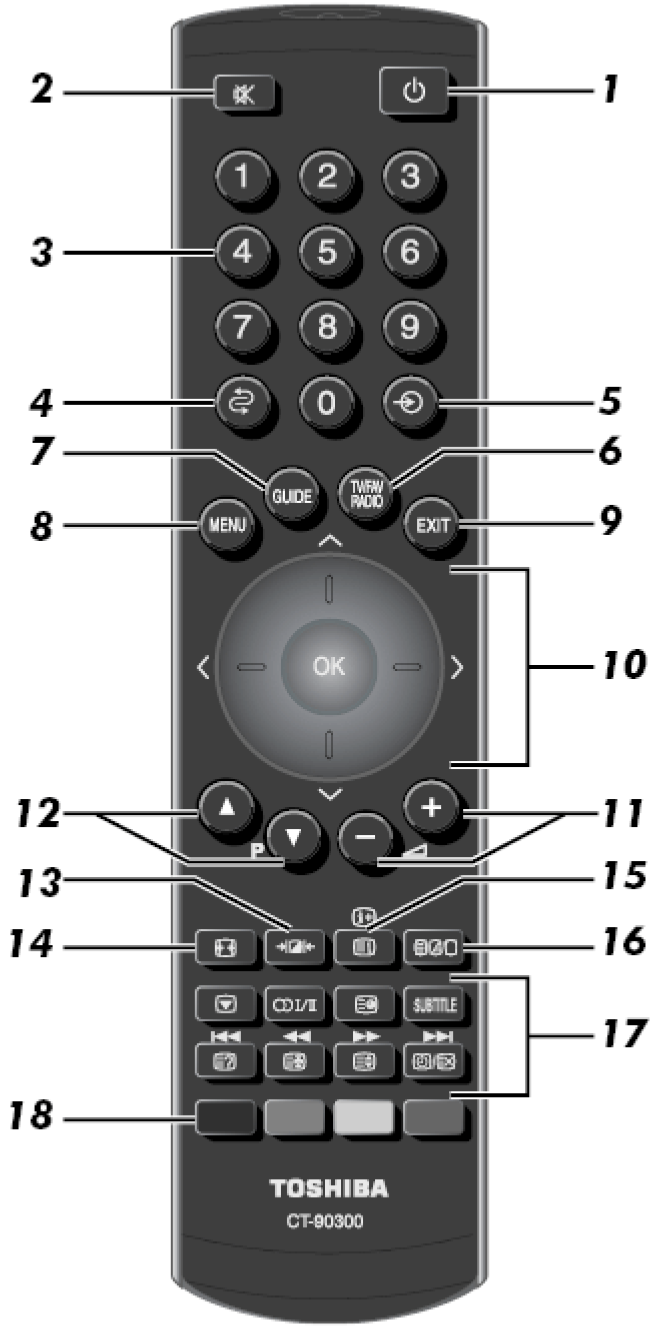
Page : 1 / 1

Block		Location	Parts No.	Description
Packing		A701	75010351	CARTON BOX, (TPO)
Packing		A702A	75010353	PAD, TOP PACKING
Packing		A702B	75010354	PAD, BOTTOM PACKING

FUNCTION AND OPERATION

The Remote Control

Simple at-a-glance reference of your remote control.


2
1
3
4
5
7
6
8
9
10
12
11
13
15
14
16
17
18
GUIDE
TV/FAV RADIO
MENU
EXIT
OK
P
SUBTITLE
TOSHIBA
CT-90300

1 For On/Standby mode

2 To mute the sound

3 Number buttons

4 To return to the previous programme

5 To select input from external sources, **analogue** or **digital** TV

6 To switch between TV, Radio and Favourite programmes when in **digital** mode

7 To display the **digital** on-screen Programme Guide

8 On-screen Menus

9 To exit Menus

10 When using menus press ∧ (up), ∨ (down), ‹ (left) and › (right) to move the cursor on the screen. (OK) to confirm your selection

11 To alter the volume

12 To change programme positions and text pages

13 Selectable picture preferences

14 Widescreen viewing

15 To display on-screen information

16 To call up text services in **analogue** mode and interactive services in **digital** mode

17 **When in TV mode:**

▼	Still picture
○○I/II	Stereo/bilingual transmissions
SUBTITLE	Digital Subtitles
◷/≡X	Time display

When using the Programme Guide:

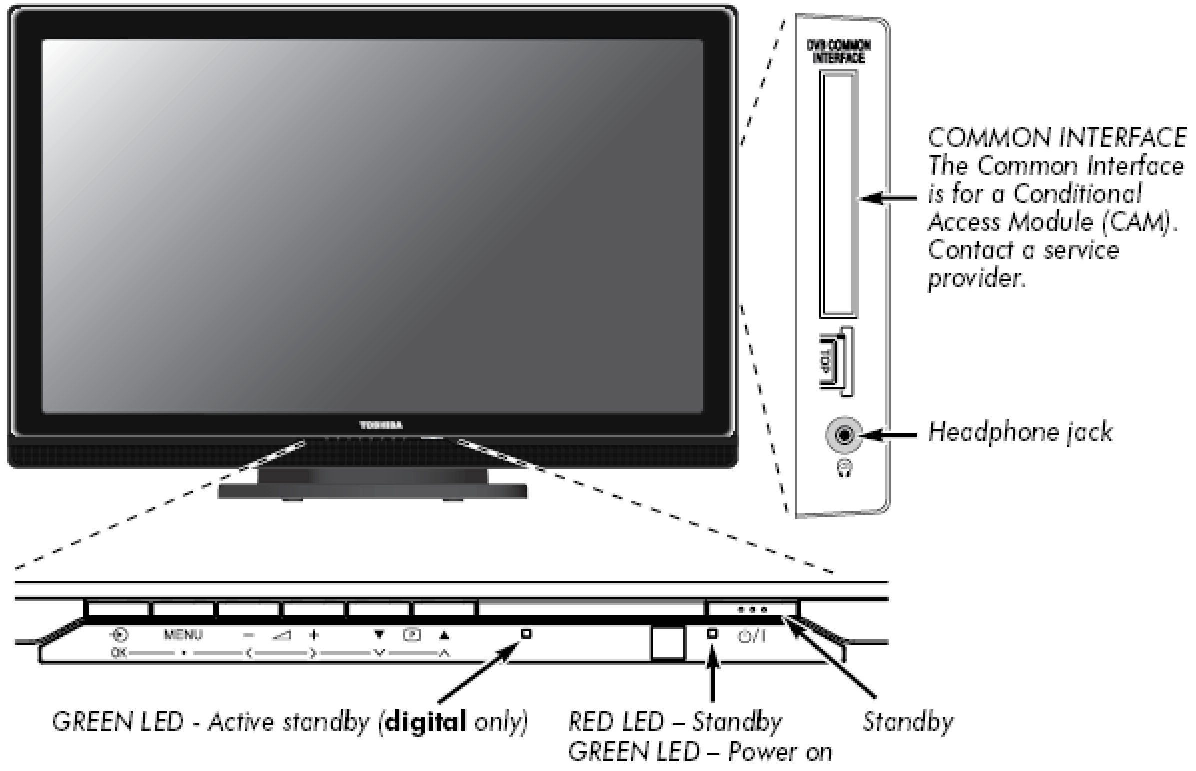
⏮	– 24 hours
⏭	+ 24 hours
◀◀	– 1 page
▶▶	+ 1 page

18 Text and interactive service control buttons

FUNCTION AND OPERATION

Using the Controls

Whilst all the necessary adjustments and controls for the television are made using the remote control, the buttons on the television may be used for some functions.


DVB COMMON INTERFACE
COMMON INTERFACE
The Common Interface is for a Conditional Access Module (CAM). Contact a service provider.
TOSHIBA
Headphone jack
MENU
OK
O/I
*GREEN LED - Active standby (**digital** only)*
RED LED – Standby
GREEN LED – Power on
Standby

Switching On

If the RED LED is unlit check that the mains plug is connected to the power supply. If the picture does not appear press ⏻ on the remote control, it may take a few moments.

To put the television into Standby press ⏻ on the remote control, the GREEN active standby LED will appear (*see 'Software Upgrade' section*) next to the RED for a few moments then disappear. To view the television press ⏻ again. The picture may take a few seconds to appear.

Using the Remote Control

Press MENU on the remote control to see the menus.

In **digital** mode the menu bar at the top of the screens will show three different topics shown in symbols. As each symbol is selected by pressing the ‹ or › button on the remote control, its respective options will appear below.

In **analogue** mode the menu appears as a list of five topics. As each symbol is selected by pressing ‹ or › on the navigation ring on the remote control, its respective options will appear below.

To use the options press the ∧ and ∨ button on the remote control to move up and down through them and OK, ‹ or › to select the required choice. Follow the on-screen instructions. The functions of each menu are described in detail throughout the manual.

Using the Controls

To alter the volume press – ◿ +.

To alter the programme position press ▼ P ▲.

Press **MENU** and ‹, ›, ∧ or ∨ to control the sound and picture options.

Press **MENU** to finish.

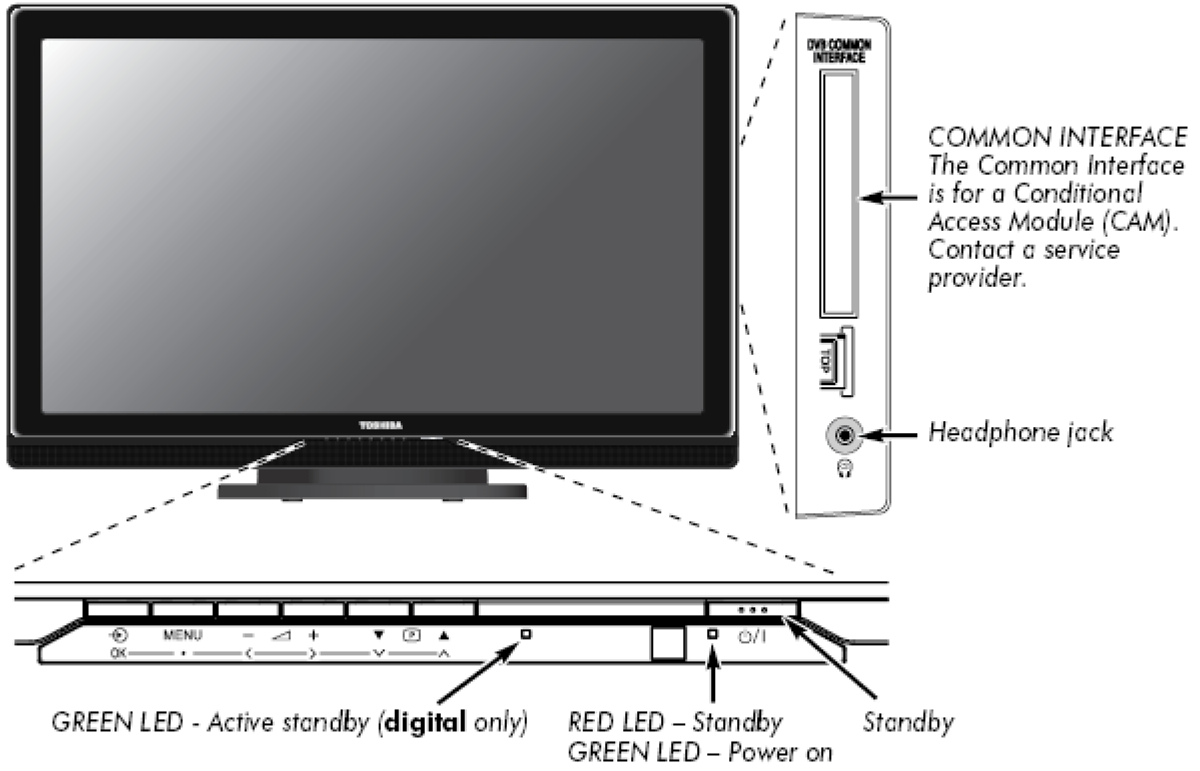
To select the external input, press ⇥ until the appropriate input source is selected.

Please note: Inserting the headphone plug will mute the sound from all speakers.

FUNCTION AND OPERATION

Using the Controls

Whilst all the necessary adjustments and controls for the television are made using the remote control, the buttons on the television may be used for some functions.


DVB COMMON INTERFACE
COMMON INTERFACE
The Common Interface is for a Conditional Access Module (CAM). Contact a service provider.
Headphone jack
MENU
OK
GREEN LED - Active standby (**digital** only)
RED LED – Standby
GREEN LED – Power on
Standby

Switching On

If the RED LED is unlit check that the mains plug is connected to the power supply. If the picture does not appear press ⏻ on the remote control, it may take a few moments.

To put the television into Standby press ⏻ on the remote control, the GREEN active standby LED will appear (*see 'Software Upgrade' section*) next to the RED for a few moments then disappear. To view the television press ⏻ again. The picture may take a few seconds to appear.

Using the Remote Control

Press MENU on the remote control to see the menus.

In **digital** mode the menu bar at the top of the screens will show three different topics shown in symbols. As each symbol is selected by pressing the ‹ or › button on the remote control, its respective options will appear below.

In **analogue** mode the menu appears as a list of five topics. As each symbol is selected by pressing ‹ or › on the navigation ring on the remote control, its respective options will appear below.

To use the options press the ˄ and ˅ button on the remote control to move up and down through them and OK, ‹ or › to select the required choice. Follow the on-screen instructions. The functions of each menu are described in detail throughout the manual.

Using the Controls

To alter the volume press – ⊿ +.

To alter the programme position press ▼ P ▲.

Press **MENU** and ‹, ›, ˄ or ˅ to control the sound and picture options.

Press **MENU** to finish.

To select the external input, press ⇥ until the appropriate input source is selected.

Please note: Inserting the headphone plug will mute the sound from all speakers.

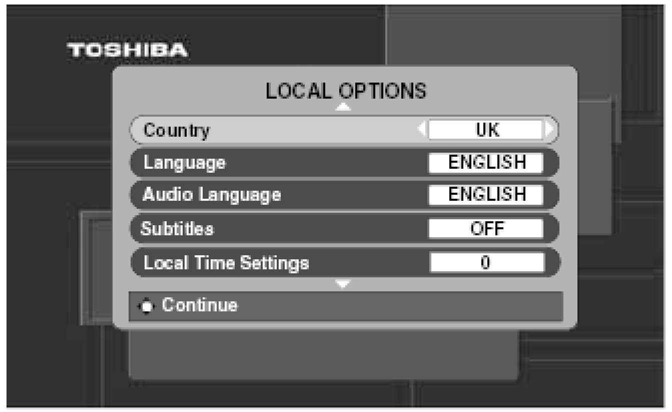
FUNCTION AND OPERATION

Tuning Digital Television

Before switching on the television put your decoder and media recorder to **Standby** if they are connected.

Tuning for the First Time

1 Press the ⏻ button, the **LOCAL OPTIONS** screen will appear. This screen will appear the first time that the television is switched on and each time the television is reset.



LOCAL OPTIONS

Country UK

Language ENGLISH

Audio Language ENGLISH

Subtitles OFF

Local Time Settings 0

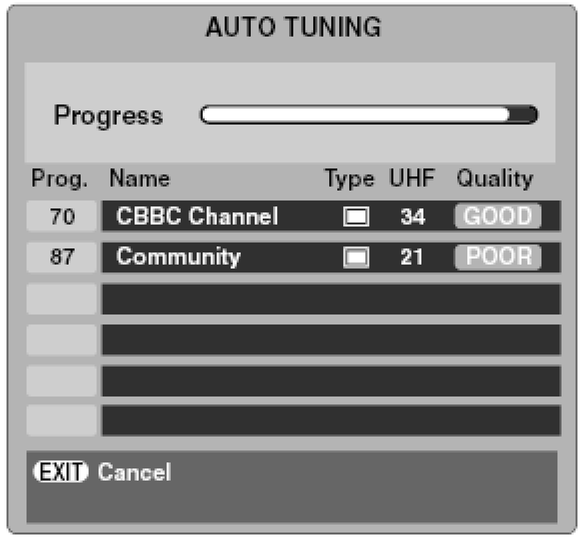
2 Press ∨ to highlight **Country** and < or > to select. The television will now tune the stations for your country.

3 Using ∨ highlight **Language**, then < or > to select.

4 Press (OK) to start tuning.

The **AUTO TUNING** screen will appear and the television will start to search for available stations. The progress bar will move along the line.

You must allow the television to complete the search.



AUTO TUNING

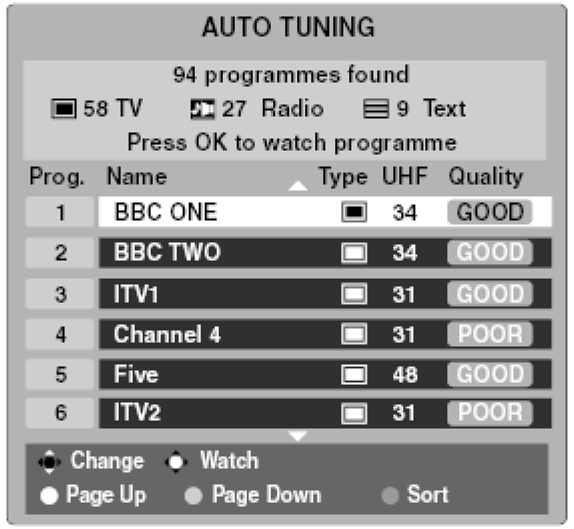
Progress

Prog.	Name	Type	UHF	Quality
70	CBBC Channel	▣	34	GOOD
87	Community	▣	21	POOR

EXIT Cancel

When the search is complete the television will automatically select programme one.

The **AUTO TUNING** screen will display the total number of services found.



AUTO TUNING

94 programmes found

▣ 58 TV ♫ 27 Radio ☰ 9 Text

Press OK to watch programme

Prog.	Name	Type	UHF	Quality
1	BBC ONE	▣	34	GOOD
2	BBC TWO	▣	34	GOOD
3	ITV1	▣	31	GOOD
4	Channel 4	▣	31	POOR
5	Five	▣	48	GOOD
6	ITV2	▣	31	POOR

Change Watch

● Page Up ● Page Down ● Sort

5 Use ∨ or ∧ to move through the list to select a programme then press (OK) to view.

NOTE: The time will be set automatically by transmission but can be advanced or decreased by up to 3 hours using **Local Time Settings**.

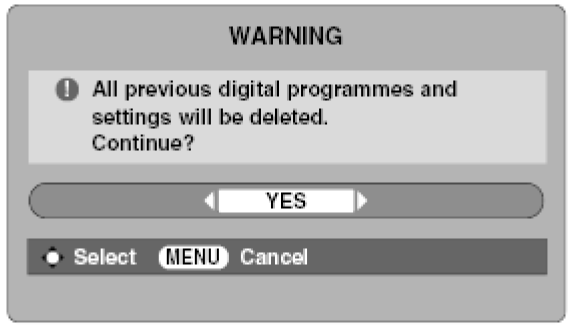
Digital auto tuning

NOTE: As new services are broadcast it will be necessary to re-tune the television in order to view them.

Auto tuning *will completely re-tune the television and can be used to up date the channel list.*
It is recommended that Auto tuning is run periodically to ensure that all new services are added*. All current programmes and settings, i.e. favourites and locked programmes, will be lost.*

1 Press MENU, the **SETUP MENU** will appear.
Use ∨ to highlight **Auto tuning**. Press OK.

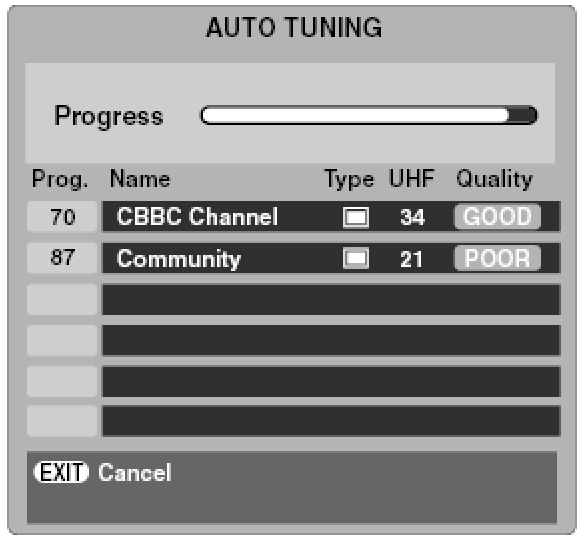
2 A screen will appear warning that previous digital programmes and settings will be deleted.
Press OK to continue with the **Auto tuning**.



WARNING

All previous digital programmes and settings will be deleted.
Continue?

The television will start to search for all available stations.

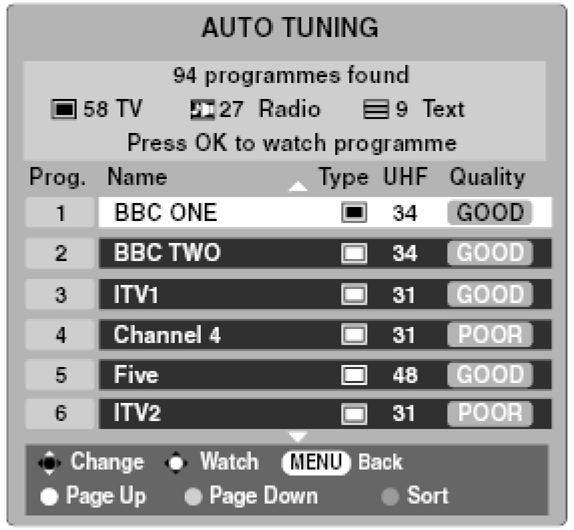


AUTO TUNING

Prog.	Name	Type	UHF	Quality
70	CBBC Channel	▭	34	GOOD
87	Community	▭	21	POOR

You must allow the television to complete the search.

When the search is complete the **Auto tuning** screen will display the total number of services found.



AUTO TUNING

94 programmes found

▣ 58 TV ▣ 27 Radio ☰ 9 Text

Press OK to watch programme

Prog.	Name	Type	UHF	Quality
1	BBC ONE	▣	34	GOOD
2	BBC TWO	▣	34	GOOD
3	ITV1	▣	31	GOOD
4	Channel 4	▣	31	POOR
5	Five	▣	48	GOOD
6	ITV2	▣	31	POOR

3 Use ∨ or ∧ to move through the list to select a programme then press OK to view.

Analogue switch-off

This is a **digital** television which is integrated to allow the use of both **digital** and **analogue** services. However, during the lifetime of this set it is very likely that **analogue** services will be switched off to allow for more new **digital** services.

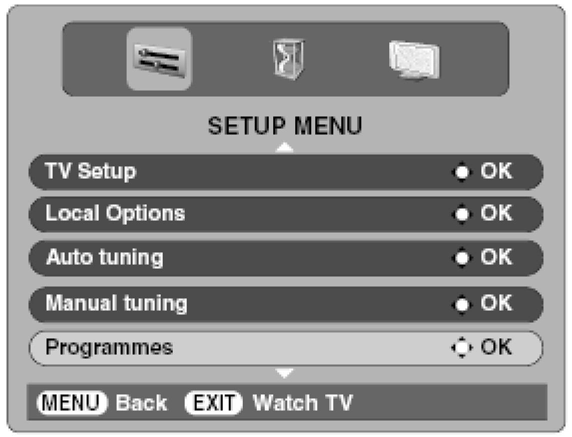
This 'switch-off' will happen in a number of phases, which will be advertised in your area well in advance. It is recommended that at each phase the television is re-tuned to ensure that existing and new **digital** services can be viewed without disruption (*see the* 'Auto tuning' *section*).

Digital programme sorting

NOTE: When the television is switched off the mode being viewed at the time will automatically be selected when the television is switched back on.

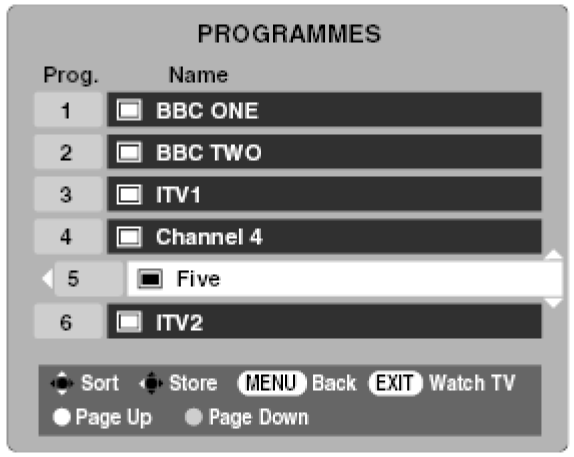
1. The station order may be changed to suit personal preference. Press (MENU), the **SETUP MENU** will appear on screen.

2. Use ∨ to move down through the list and highlight **Programmes**. Press (OK).


SETUP MENU
TV Setup ● OK
Local Options ● OK
Auto tuning ● OK
Manual tuning ● OK
Programmes ✥ OK
MENU Back EXIT Watch TV

3. With the list of stations now showing use ∨ or ∧ to highlight the station you want to move and press >.

   The selected station will be moved to the right of the screen.


PROGRAMMES

Prog.	Name
1	BBC ONE
2	BBC TWO
3	ITV1
4	Channel 4
5	Five
6	ITV2

Sort
Store
MENU Back
EXIT Watch TV
Page Up
Page Down

4. Use ∨ or ∧ to move through the list to your *preferred* position. As you do so the other stations will move to make room.

5. Press < to store your move. Repeat as necessary, then press (EXIT).

This feature is available for service engineers or can be used for direct channel entry if the multiplex channel is known.

1. Select **Manual tuning** from the **SETUP MENU** and press (OK).

2. Enter the multiplex number using the number buttons and then press (OK). The television will automatically search for that multiplex.

   When the multiplex is found any channels not currently on the programme list will be added and the programme information at the top of the screen will be updated.

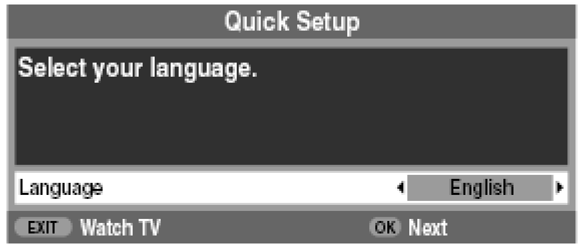
3. Repeat as necessary. Press (EXIT) to finish.

Tuning Analogue Mode

Quick Setup

The **Quick Setup** feature will tune all **analogue** channels currently available in the area. To put the television into **ATV** mode press the ⊕ button then use ∧ or ∨ to select **ATV**.

1. Select **ATV** mode. The **Quick Setup** screen will appear.

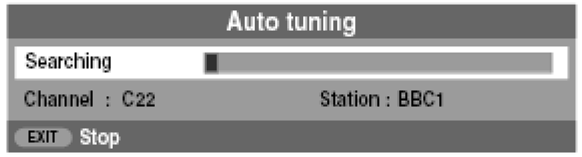


Quick Setup

Select your language.

Language ◂ English ▸

2. Using < or > select your **language**, then press (OK).
3. Then press < or > to select your **country**.
4. To start **Auto tuning** press (OK).



Auto tuning

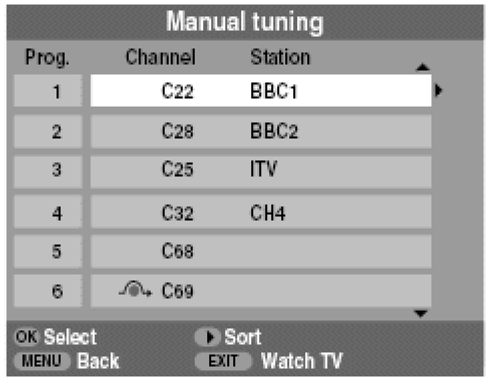
Searching

Channel : C22 Station : BBC1

5. The search will begin for all available stations.
The slide bar will move along the line as the search progresses.

You must allow the television to complete the search.

When the search is complete the television will automatically select programme position 1 and the **Manual tuning** screen will appear.



Manual tuning

Prog.	Channel	Station
1	C22	BBC1
2	C28	BBC2
3	C25	ITV
4	C32	CH4
5	C68	
6	C69	

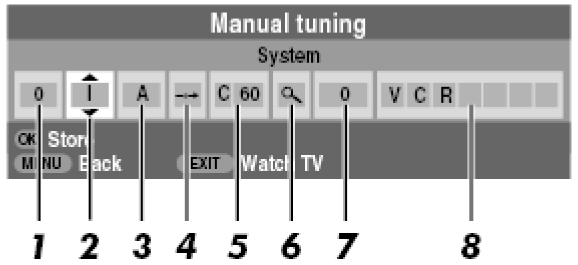
6. Use ⌄ or ⌃ to move through the list to select a programme then press (EXIT) to view.

The station order may be changed using the **Manual tuning** screen (*see the* **analogue** *'Sorting programme positions' section*).

Manual Tune

The television can be tuned-in manually using **Manual tuning**. For example: if the television cannot be connected to a media recorder/decoder with a SCART lead or to tune-in a station on another **System**.

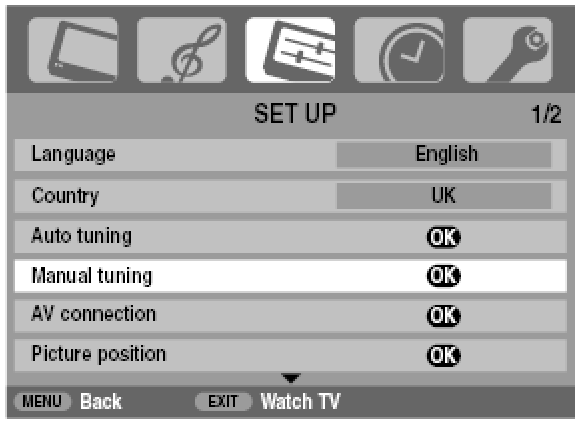
Use < and > to move across the screen and select any of these Manual Tune options.



1. **Programme:**
   The number to be pressed on the remote control.
2. **System:**
   Specific to certain areas.
3. **Colour system:**
   Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.
4. **Programme skip:**
   👁→ means nothing has been stored or the facility to skip the channel is ON.
5. **Channel:**
   The channel number on which a station is being broadcast.
6. **Search:**
   Search up and down for a signal.
7. **Manual fine tuning:**
   Only used if interference/weak signal is experienced.
8. **Station:**
   Station identification. Use the ∧ or ∨ and < or > buttons to enter up to seven characters.

To allocate a programme position on the television for a decoder and media recorder: turn the decoder on, insert a pre-recorded film in the media recorder and press PLAY, then manually tune.

1. Press MENU and using ‹ or › select the **SET UP** menu, with ˅ highlight **Manual tuning**, press OK to select.

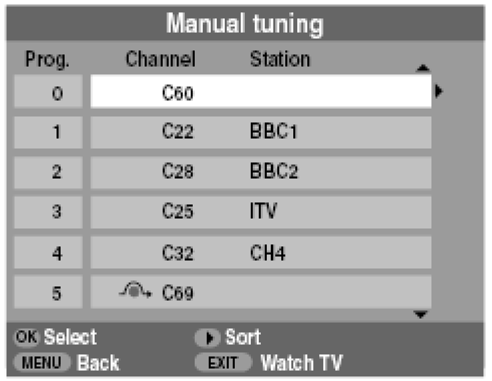


SET UP 1/2

Language	English
Country	UK
Auto tuning	OK
Manual tuning	OK
AV connection	OK
Picture position	OK

MENU Back EXIT Watch TV

2. Use ˄ or ˅ to highlight the programme position required e.g. we suggest ***Prog. 0*** for a media recorder.



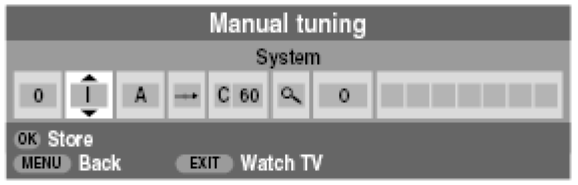
Manual tuning

Prog.	Channel	Station
0	C60	
1	C22	BBC1
2	C28	BBC2
3	C25	ITV
4	C32	CH4
5	C69	

OK Select ▶ Sort
MENU Back EXIT Watch TV

Different **Channel** numbers may be displayed.

3. Press OK to select. If the programme is skipped, **Programme skip** must be removed before storing.



Manual tuning

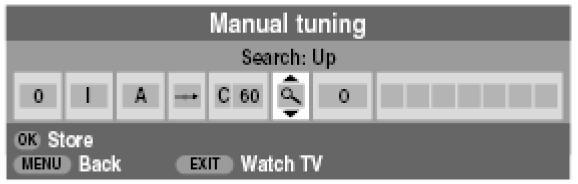
System

OK Store
MENU Back EXIT Watch TV

4. Press › to select **System** and use ˄ or ˅ to change if required.

5. Then press › to select **Search**.

6 Press ^ or ∨ to begin the search. The search symbol will flash.



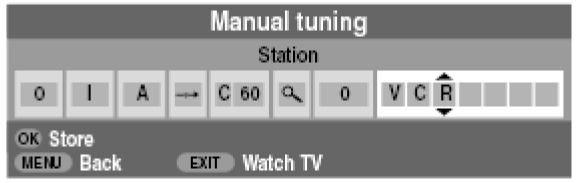
Manual tuning

Search: Up

0
I
A
C 60
0
OK Store
MENU Back
EXIT Watch TV

7 Each signal will show on the television, if it is not your media recorder, press ∧ or ∨ again to restart the search.

8 When your media recorder signal is found, press > to move along to **Station**. With ∧, ∨, < and > put in the required characters, e.g. **VCR**.


Manual tuning
Station
0
I
A
→
C 60
0
VCR
OK Store
MENU Back
EXIT Watch TV

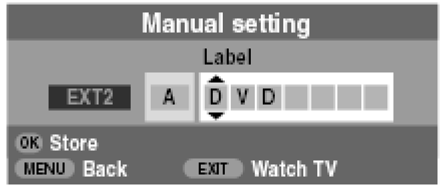
9 Press OK to store.

10 Repeat for each ***programme position*** you want to tune or, press MENU to return to the list of channels and select the next number to tune.

11 Press EXIT when you have finished.

12 To name external equipment, e.g. DVD on EXT2, press ⊕ to select ⊕2, then select **Manual setting** from the **SET UP** menu.

13 Press > to select **Label** then using ∧, ∨, < and > put in the required characters.

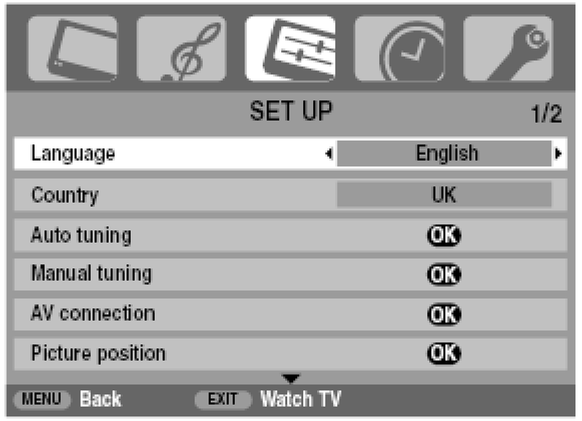

Manual setting
Label
EXT2
A
DVD
OK Store
MENU Back
EXIT Watch TV

PLEASE NOTE

This television has direct channel entry if the channel numbers are known.
Select the **Manual tuning** screen in ***Step 3***. Enter the **Programme number**, the **System**, then **C** for standard (terrestrial) channels or **S** for cable channels and the **Channel** number. Press OK to store.

Using Auto Tuning

1. To set up the television using **Auto tuning**, press MENU and use ‹ or › to select the **SET UP** menu.



SET UP 1/2

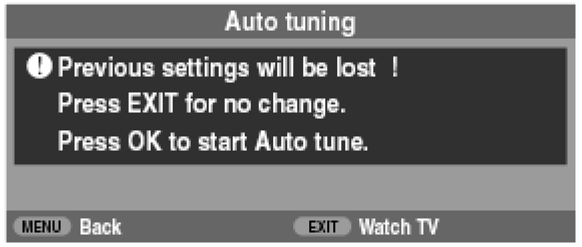
Language ◂ English ▸
Country UK
Auto tuning OK
Manual tuning OK
AV connection OK
Picture position OK

MENU Back EXIT Watch TV

2. Press ∨ to highlight **Language** and ‹ or › to select.

3. Using ∨ highlight **Country**, then ‹ or › to select. The television will now tune the stations for your country.

4. Press ∨ to highlight **Auto tuning**, then press OK.



Auto tuning

! Previous settings will be lost !
Press EXIT for no change.
Press OK to start Auto tune.

MENU Back EXIT Watch TV

5. To start **Auto tuning** press OK.

You must allow the television to complete the search.

When the search is complete the television will automatically select programme position 1. This may not be a clear picture, so the station order can be changed.

SPECIFICATION

DVB-T Broadcast systems/channels

UK	UHF 21-68
France	VHF 05-10 (VHF 01-05) UHF 21-69
Germany	VHF 05-12 UHF 21-69
Austria	VHF 05-12 UHF 21-69
Switzerland	VHF 05-12 UHF 21-69
Italy	VHF 05-12 (D,E,F,G,H,H1,H2) UHF 21-69
Spain	UHF 21-69
Nederlands	VHF 05-12 UHF 21-69
Sweden	VHF 05-12 UHF 21-69
Finland	VHF 05-12 UHF 21-69
Greece	VHF 05-12 UHF 21-69

Broadcast systems/channels

PAL-I	UHF UK21-UK69
PAL-B/G	UHF E21-E69 VHF E2-E12, S1-S41
SECAM-L	UHF F21-F69 VHF F1-F10, B-Q
SECAM-D/K	UHF R21-R69 VHF R1-R12

Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

EXT1	Input/Output	21-pin SCART	RGB, A/V
EXT2	Input/Output	21-pin SCART	A/V, S-video
EXT3	Input	Phono jacks Phono jacks	Y, P_B/C_B, P_R/C_R Audio L + R
EXT4	Input	Phono jack Phono jacks	Video Audio L + R
HDMI 1/2	Input	HDMI™ (Audio LIP SYNC supported)	
HDMI1 Audio		Phono jacks	Audio L + R

Stereo		Nicam 2 carrier system	
Visible Screen Size (approx.)	Model	32	80cm
		37	94cm
		42	107cm
Display		16:9	
Sound output (at 10% distortion)		Main 10W + 10W	
Power consumption as specified in EN60107-1 : 1997	Model	32	137W
		37	169W
		42	217W
Standby (approx.)	Model	32	0.9W
		37	0.9W
		42	0.9W
Dimensions (approx.)	Model	32	55cm (H) 80cm (W) 22cm (D)
		37	62cm (H) 91cm (W) 25cm (D)
		42	68cm (H) 101cm (W) 26cm (D)
		(Height dimension includes foot stand)	
Weight (approx.)	Model	32	14.3kg
		37	17.5kg
		42	22.0kg
Headphone socket		3.5mm stereo	
Accessories		Remote control 2 batteries (AAA, IEC R03 1.5V)	